

# CEA considers offering damaged bubble chamber

The Cambridge Electron Accelerator's large bubble chamber, damaged in explosion July 5, will not be reinstalled when it is rebuilt.

Instead, it is hoped that this valuable apparatus can be installed at some other national particle accelerator. Under study is the possibility of reinstalling at CEA a smaller bubble chamber formerly used there.

Dr. M. Stanley Livingston, CEA director, said the twin decisions to investigate moving the larger chamber elsewhere and reinstalling the smaller one in Cambridge were made by CEA's Scientific Committee acting on recommendations from the physicists who had planned to use the chamber if it had been completed.

CEA is operated jointly by MIT and Harvard under contract from the Atomic Energy Commission. The Scientific Committee is composed of representatives from MIT and Harvard. The bubble chamber user group includes scientists from MIT, Harvard, and Brown.

The large bubble chamber apparatus is presently being rebuilt in a warehouse in Billerica, Mass. The chamber is essentially a double-walled metal cylinder 40 inches in diameter and filled with liquid hydrogen.

Beams of high energy atomic particles from accelerators are passed through such chambers. Reactions that occur between the beam and the hydrogen atoms leave tracks in the liquid hydrogen medium and these tracks can be photographed and analyzed for

clues about the properties and structure of subnuclear particles. The smaller chamber formerly used at CEA is 12 inches in diameter.

Dr. Livingston said removal of the 40-inch chamber from CEA will not reduce the effectiveness of the accelerator as a tool for physics research.

## '67 Officers announce JP queen contest rules

The Class of '67 Executive Committee has announced the rules for the 1965 Junior Prom Queen contest.

The rules are: (1) all entrants must be the date of a member of the Class of '67; (2) each fraternity will be permitted one entry; each dormitory will be permitted three entries; (3) a suitable picture of the entrant must be submitted for voting.

Names and pictures of the entrants, and their dates' names and living groups, must be submitted to the Incomm office by October 26.

The voting for the five finalists will be done by the student body in the lobby of building 10 from October 27 to 29. Final judging will be done the evening of the dance by a committee of Beaver Key members.

# The Tech

Vol. 85, No. 20 Cambridge, Mass., Wednesday, Oct. 20, 1965 5c

## Vice-President resigns

### McCormack to head Comsat

By Mike McNutt

Mr. James McCormack announced Friday that he will resign his positions as Vice President of MIT and Chairman of the MBTA in order to take up his new post as Chairman and Chief Executive Officer of the Board of Directors of the Communications Satellite Corporation.

Announced by Comsat

The following statement was released by the Board of Directors of Comsat:

"The Board of Directors of the Communications Satellite Corporation today elected James McCormack as Chairman and Chief Executive Officer of the Board of the Corporation. He will take office December 1, succeeding Leo D. Welch, who has served since April 1, 1963."

Importance of job

When asked to comment on the importance of his new job, Mr.



General James McCormack

McCormack said, "The Communications Satellite Corporation is one of the most challenging ventures of our times. The development of a global commercial communications satellite system will bring fundamental changes in the entire international communications pattern. This is a project of extreme importance to the nation and to the world."

"I shall do my best to assist in carrying out the mandate of the Congress in the Communications Satellite Act of 1962 for the development as expeditiously as practicable of the commercial communications satellite system."

Masters from MIT

Mr. McCormack was born in Chatham, La., on November 8, 1910. He was graduated from the U.S. Military Academy in 1932 and was a Rhodes Scholar at Oxford University, from which he received a Master of Arts Degree. In 1937, he was awarded a Master's Degree in Engineering from MIT. He holds two honorary doctorates.

Government Experience

During the past ten years, McCormack has served as a consultant to the White House, State Department, National Aeronautics and Space Administration, Civil Service Commission, Department of Defense, and Departments of the Army, Navy, and Air Force. He has also participated in several major national studies, including the Rockefeller Special Study on Prospect for America, the Gaither Panel on the National Security, and the Draper Committee on Foreign Military Assistance.

## Vietnam demonstrations

# Students join protests

By Ted Nygreen

Last Friday evening and Saturday was a time of many student demonstrations across the country protesting the war in Vietnam, and MIT was no exception.

Friday night a near capacity crowd of about 400 people attended the lecture and open discussions in 10-250, a larger group than came to last year's teaching. In whatever manner success of this type of activity is measured, the Friday evening meeting was successful.

Serious interest

The factual presentation by five area professors stimulated serious questions from a great number of those in attendance. The lack of any heckling or counterprotesting remarks indicated a really serious interest on the part of Friday night's group. It appeared that a significant number were uncommitted and came merely to participate by asking questions.

Saturday a portion of the group which had assembled Friday night participated in the Boston-wide protest march. As the march passed MIT about 2 o'clock Saturday afternoon, a group of about 50 people joined as a body, with others joining up along the way.

The surprising thing Saturday afternoon was the appearance of a significant number of counter-demonstrators. Several signs were



Photo by John Torode  
Spectators, some with signs supporting US policy in Vietnam, watch anti-war marchers on their way to Saturday's rally on the Boston Common. Scene shows marchers who started from the Cambridge Common as they pass MIT on Mass. Ave.

seen defending American foreign policy.

On the national scene

The papers reported a sizeable turnout of marchers in almost every major American city. It is reported that marchers on New York's Fifth Avenue numbered from 10,000 to 35,000.

Monday, President Johnson expressed his disappointment that such a considerable number of citizens had taken the effort to express their disapproval of his foreign policy. Subtly admonishing those who had exercised their right of free speech, the President said he believed this behavior was conveying the wrong philosophy of American determination to our adversaries.

Committee to Oppose the War in Vietnam

The MIT Committee which organized and executed last weekend's activities is a group begun in September by Sue Bodenheimer, with Prof. Naom Chomsky as faculty advisor. Starting with only 30 students and a dozen faculty members, this group has grown considerably and is presently planning many future projects, including the organization of a national convention and march on Washington over Thanksgiving.

This committee is presently urging the Institute to incorporate a course into the history department concerned with Vietnamese history, and presently being offered is 21.357, "Intellectuals and Social Change," dealing primarily with the intellectual's role in recognizing his responsibilities in society.

International protest days

October 15-16 were designated as the international days of protest, and the activities at the Institute were in recognition of these

days. The idea for a demonstration on the international level was begun by a group of students at Berkeley. It is based on the belief that summer, being the natural break in student involvement in activities, would tend to disorganize existing groups on campuses nationally, and a large scale activity early in the school year would help to reunite these committees.

The thesis

As stated by the BU Students for Peace, the viewpoint held by those parties protesting can be summed up as "advocating a reorientation and reconsideration of our government's policies, in Asia and elsewhere . . . a reorientation that will lay stress on ethical considerations before political advantages."

(Ed. note: Mr. Nygreen will expand on his philosophy of Vietnam involvement in detail in later issues; presently his concern is for the protest which was nationally executed and those who participated.)

## Grad students advised to request deferments

In the face of increased draft calls, the Graduate School will begin filing requests for deferments to students over 26 as well as to those under 26. The Graduate School office recommends that all such students who have not filed SSS Form 103 through the Graduate School since the beginning of the new academic year should arrange to do so in Room 3-136.

## Glove fight, keelboat race highlight Beavers Key's Field Day schedule

By John Corwin

The 1965 Field Day schedule, which outlines events for Saturday, November 13, has been released by Dick Coulter, Chairman of the Field Day Committee of Beaver Key.

The traditional glove fight and tug-of-war will be included this year. Because last year's rope broke during the tug-of-war, a new \$500 rope has been purchased.

This year's building event will be a keelboat race. The will roll on a set of logs, to be moved in rotation from back to front of the boat. A coed will be riding each boat. Points will be awarded for best looking boat, best dressed coed riding the boat, and the winner of the race.

The boats will also be equipped with noisemakers, launching sites for water and eggs, and the class flags. For the first time this year, each class will make an official flag with any design incorporating the class number and color. The colors are crimson for '68, blue for '69.

Another event will be the coed candle-carry. Five coeds from

each class, dressed in night shirts and caps of their class colors, will engage in a 6-legged race, each carrying a lit candle. Points will be awarded for the best costumes, the most candles remaining lit at the end of the race (re-lighting forbidden), and of course to the winning team.

There will be two mystery events, one of them completely secret. For the other, each class will have to come prepared with a list of random articles, including wet bars of soap, seat belts, 5.02 Notes, beach balls, decks of cards, water balloons, and bouquets of flowers.

The Schedule pointed out that there are three innovations in this year's fight. Aside from the class colors and flags, each boat will carry a constructed model of a beaver in plain sight.

The rules will also be different this year. The building events will not be subject to destruction, but the flags, which must be ready one week in advance, are subject to theft, for which credit points will be given. The main goal of Field Day this year is to have a good fight on the field.

## \$1500 collected for oath protests

Rev. Myron Bloy, Treasurer of the MIT Committee for the Loyalty Oath Fund, reported to the Committee last Friday that it had thus far acquired about \$1,500 for its attempts to have the state's Teachers' Loyalty Oath declared unconstitutional.

Professor William Watson, one of the leading figures in the controversy stated that he was pleased that the fund drive has started so well, but commented that more donations will be necessary in order to carry out the needed legal procedures.

Yesterday, Mr. Gerald A. Berlin, the lawyer who will defend those protesting the oath, spoke at a luncheon sponsored by the Protestant Ministry at MIT on the topic, "The Massachusetts Teachers' Loyalty Oath."

## Norman Thomas lectures Oct. 28

Norman Thomas, who ran unsuccessfully for the Presidency of the United States six consecutive times on the Socialist Party ticket, will speak in Kresge Auditorium on October 27, at 8 p.m. The free, public lecture will be presented by the Lecture Series Committee.

Thomas is the author of many books, including "The Conscientious Objector in America," and is also the founder of the "World Tomorrow" organization. He is a past officer of several Socialist activities.

## Grad student takes life in Back Bay fall

Kenneth Kushner, a graduate student in mathematics, was found dead at 6:00 pm Sunday after he had fallen from the fifth floor of his Back Bay apartment at 146 St. Botolph Street. Police called the death a suicide.

Kushner, a resident of Brooklyn, New York, was in his second year of graduate study at MIT. He received his undergraduate degree from Hobart College in Clinton, New York.

**Open meeting today****Foreign opportunities to be discussed**

By Joe Fiksel

The Foreign Opportunities Committee of Incomm will sponsor a meeting today, Wednesday, for students interested in going abroad for either academic work or for summer employment. Rich Krasnow, '67, chairman of the Committee, announced that the meeting will convene today at 5 pm, in the Little Theatre of Kresge Auditorium.

The program will consist of a panel discussion concerning international education. Members of the panel include Prof. John Norton, Foreign Study Advisor, Prof. B. A. Thresher, Director of Admissions Emeritus, currently Graduate Fellowship Advisor, Dean Frederick G. Fassett, and Mr. Thomas W. Harrington, MIT Placement Officer.

Freshmen and sophomores in particular will be interested in Prof. Norton's explanation of the Junior Year Abroad Program. He has spent a great deal of time investigating the feasibility of such a plan, and has recently returned from a journey to Europe, during which he had the opportunity to visit several noted universities.

Next, Dean Fassett will discuss the Crossroads Africa Program, which has had a sporadic existence so far at MIT. This year, the Foreign Opportunities Committee, with the support of the

administration, has assumed part of this program, and is developing it into a permanent, well-organized activity. Dean Fassett will be followed by Miss Michal Kerestes, '68, who represented MIT in West Nigeria this past summer. She will give an account of her personal experiences under the program.

Finally, Mr. Harrington will delineate the opportunities open to MIT students who desire summer employment in a foreign

country. This seems to be of major interest to most undergraduates, and the Committee would like to place as many qualified candidates as possible.

Most MIT students have wondered about the practicality of an academic year abroad, and about the corresponding flexibility of MIT's academic requirements. Their questions and doubts should be fully answered at tonight's discussion, according to Rich Krasnow.

**'Improvements in security clearance procedures' topic of former White House consultant**

Former White House consultant and First Assistant, Civil Division, Department of Justice, Mr. Joseph A. Faneili, will speak on Thursday, October 21 at 8 pm in the Bush Room, 10-105, on "Improvements in Security Clearance Procedures to Protect the Individual Scientist and Engineer."

Mr. Faneili is noted for his successful Supreme Court cases involving passport and security

clearance denials (Chasanow case).

The meeting, sponsored by the MIT Society for Social Responsibility in Science, will include time for informal discussion of the subject with the speaker.

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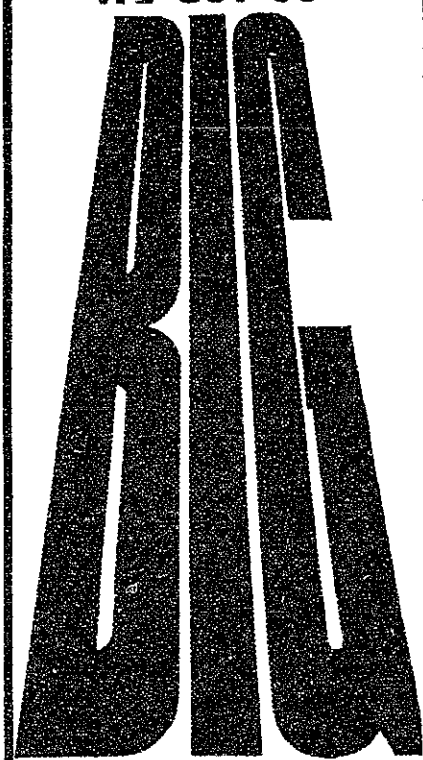
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## Shapiro to conduct Compass Seminar

"Solar System Test of General Relativity" will be the subject of a Compass Seminar set for next Tuesday, October 26, at 4:00 p.m. in 54-100.

Dr. I. I. Shapiro of MIT Lincoln Laboratory will conduct this second of a series of three seminars on Experimental Approaches to Gravity. Yesterday's seminar topic was "The Geometry of Space and Time."

Tea will be served in the Faculty Lounge, 54-923, at 3:30 p.m.

## TCA secretary chosen



Miss Nancy Salvato

Miss Nancy Salvato, new TCA secretary, has been working in the TCA office for little over a month. In addition to her purely secretarial work, she assists with most of TCA's functions, such as the APO Blood Drive, the TCA Charities Drive, and the running of duplication facilities.

In her short time here, Miss Salvato has become extremely impressed with friendliness and helpfulness of the students, and with the facilities of the new offices in the Stratton Building.

Miss Salvato is from Garden City, Long Island, New York. She came to TCA after working at the New York World's Fair and graduating from Mount Ida Junior College in Newton Center.

## Inside Inscomm

### Tom Jones picked to chair Spring Weekend Committee

By Bill Byrn

Tom Jones '66 was elected Chairman of the 1966 Spring Weekend Committee at the Institute Committee's Sunday evening meeting in the Student Center. At the same meeting, John Sussman '67 was elected Chairman of the Parents' Weekend Committee.

About 35 undergraduates turned out for interviews for the Spring Weekend Committee posts, and competition was keen. Those elected were: John Davis '66, John Freeman '66, Jim Schwarzkopf '67, Harry Otaguro '67, Gordon Logan, '68, and Jerry Grochow '68.

While these men are essentially responsible to the Institute Committee for all aspects of the planning and execution of a Spring Weekend on April 29-30, they will welcome your own ideas and sentiments regarding entertainment, locale and format.

The PRC Social Calendars have

been printed, and to a large extent, distributed. Extra copies are available in the Inscomm office in the Student Center.

Rich Krasnow, chairman of the Foreign Opportunities Committee, announced a public session for those students interested in Junior Year Abroad and similar foreign study programs. This informational session will be held tonight, October 20, in the Kresge Little Theater, at 5:00 p.m. All interested are invited to attend.

On Thursday, October 21, the Student Committee on Educational Policy will present MIT's Chief Psychiatrist, Dr. Benson Snyder, at 7:30 p.m. in room 473 of the Student Center. Dr. Snyder will speak on the preliminary results of the studies made on the MIT class of 1965 by his office and Dean John Rule.

### Wiesner, Rosenblith discuss 'God and Golem,' part of series of Hillel Society presentations

By Dave Koffman

The Hillel Society sponsored a discussion of the late Prof. Norbert Wiener's God and Golem, Inc. last Thursday in the mezzanine lounge of the Student Center; main participants were Prof. J. B. Wiesner, Dean of the School of Science, and Walter A. Rosenblith, Prof. of Communications Biophysics.

The subject of the book and of the discussion was the problem of controlling the results of the rapidly increasing pace of man's technological development. After introductory remarks by Rabbi Pollack, explaining the Golem legend, Profs. Wiesner and Rosenblith started the program with a few of their own thoughts on the problem; the prevailing mood was one of cautious optimism.

The meeting was then opened to questions, eliciting the main speakers' most interesting remarks, many of which stressed the need for scientists to concern themselves with the results of their work.

This discussion was part of a series being presented by the Hillel Society. These discussions are to be a forum for intellectual ideas of interest to the MIT community. Last year there was a discussion of "The Nature of Man." The coming months will see programs entitled "The Nature of

Love," "The European Intellectual Community before World War II and the American Intellectual Community of the Present," and "Why Study the Past?" Audience participation is an important part of the conception of this series.

(Ed. note: Next week The Tech will present a study of the questions raised during this most recent meeting.)

### Ascherman heads Charities Drive

Ernest W. Ascherman '67, vice-president of TCA, has been selected as chairman of TCA's annual undergraduate Charities Drive. The Drive, coordinated with the United Fund, will run from November 3 until November 10. Funds will be gathered both by personal solicitation and through a booth in Building 10. Contributions from this year's Drive will be donated to the American Cancer Society, Care, the Student World Alliance for Progress, the United Fund, and the World University Service.

Last year's Drive netted \$1301.42 with Zeta Beta Tau and Phi Delta Theta having the largest contributions, among the fraternities and with Baker House being the largest contributor from the dorms.

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# Students, the draft, and civic duty

Let's face it. We would rather not be drafted. We apply through Mr. Lutz for our deferment as promptly as anyone else does. We would like to go to grad school, and we wouldn't mind avoiding military service altogether.

We'd hate to lose two good years of earning, as well as learning. Military service to many of us just isn't an attractive proposal. And most people feel this way, even veterans. Why, on the other hand, do some insist on making the whole question of the draft a moral issue?

Everyone has had some member of his family fight in some war; but today there seems to be (if one takes the ubiquitous demonstrations as evidence) a widespread belief that anyone who submits to the draft is aiding a cause comparable to the Third Reich.

Students in general, of course, get blamed for this attitude; and an irate citizenry begins counterpicketing with signs reading "Draft these punks." We heartily concur—as long as it is obvious just who these punks are.

All of this tumult and shouting is the outgrowth of a great discovery on the West Coast—the discovery that students,

or pseudo-students, could get away with anything in the name of Freedom, Free Speech, and perhaps the Hotdog. We feel that all this has gone a bit too far. The large numbers of pickets and counterpickets, and so on ad nauseam, are not proving anything about the feeling of "the American public." They are only convincing that public that perhaps student deferment is not such a good idea after all.

Of course, we will always have the committees with us. The anti-Vietnam War people will continue to insist that dead Vietnamese in 1965 are worse than dead French peasants in 1944, and the pro-War group will find some counter-justification. And both will feel that the other side is callous and unrealistic and unchristian.

There is a larger group of students, however, who are simply not willing to add their voice to the disorganized shouting. They do resent the "image" which their louder fellows are projecting. They resent being called "chicken" and "beatnik" and "troublemaker." They resent the implication that their friends and family who support the government they elected are traitors to God and humanity. They resent the predetermined conscience imposed upon them.

It is these voluntarily voiceless students whom we defend. They will accept the draft if it comes, though they won't pretend to enjoy it. They are afraid to die—but they may die anyway, because real courage can overcome fear. And in the meanwhile they will patiently listen to the accusations of their self-appointed "leaders," who will bravely stand before a crowd in a free country and deride the people by whose leave they speak.

Where are the adult voices, the faculty members in particular, who will help these students mature? Who will show them how to accomplish by cooperating? Who will demonstrate tolerance of society as it is and has been and will be—imperfect and struggling to improve? We have leaders aplenty for civil disobedience; where are the leaders in civic responsibility? Or doesn't anyone believe that life is worthwhile enough to share its good side with others?

There are a majority of students who want to help their fellow man, who are informed, who are concerned, who are not apathetic, and who are looking for this kind of mature direction. Some of them find some answers in political science courses, or psychology courses, or management courses. Need this kind of serious searching be limited to the curriculum?

We would like some response from our readers on this problem which is, we believe, educational. Is MIT making an effort to help students mature? Is a laissez-faire policy enough? Or is there more to college than a course in physics and a 2-S draft status?



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# Letters to The Tech

## Victory in Vietnam

To the Editor: A group of MIT students has formed the MIT Committee for Victory in Vietnam to actively express student support for a firm American commitment in Vietnam.

The Committee regrets the participation in radical demonstrations by a few members of the MIT student body and faculty in that they misrepresent the sentiments of the overwhelming majority of the MIT community. The Committee has sent the following telegram to President Johnson and Secretary of State Rusk:

"Most important that you be informed that vast majority of MIT students behind United States policy in Vietnam. The actions of a few fringe elements bother us only in that the rulers in Peking and Hanoi might mistakenly consider them representative of the resolve of American youth.

"Our Committee is an approved activity voicing the opinion of many MIT students. We shall continue to support a firm American policy in Vietnam."

Richard Cunningham, Chairman  
Mike Barron, Vice Chairman

(Quite aside from the support of policy, we have doubts about support for such a telegram.—Ed.)

## Denial

To the Editor:

I am not a member of the MIT Committee for the Loyalty Oath Fund. I do not know how my name was included in the list of the Committee members.

Prof. Elias P. Gryftopoulos Nuclear Engineering (Prof. Gryftopoulos' name appears on a letter circulated by the Committee to all the faculty.—Ed.)

## Foreign Students

To the Editor:

My colleagues and I in the Foreign Student Office have been interested in reading the letter you have recently printed from the two Japanese gentlemen who

would like to further their education in the United States. If this letter had come directly to the Foreign Student Office, as many similar letters come every day, we should have answered these men by sending them information about our courses at MIT, and given them whatever information we could about the ways in which they might find financial aid.

There are a great many students from other lands now studying in the United States. Last year at universities and colleges all over the country, there were 3386 Japanese students, most of them in graduate schools. In addition to this number, there were 1108 post-graduate scholars and members of the faculty who were engaged in teaching or research on U.S. campuses.

At the same time, there were a total of 913 foreign students from 69 different countries in attendance at MIT. Six hundred and ninety-three of these were in MIT's graduate school, and of this number 343 helped to support them-

(Please turn to page 5)

# Footnotes

by Chuck Kolb

78. Since empty buildings on this campus seldom stay empty long, there's been speculation on who will be occupying the old 'Coop' building.

Latest rumor is that the Architecture Department wants the building for 'light and form' studio, and are looking for funds to finance the project.

With the questionable exception of phys. ed. classes in Dupont this would be the first site of academic classes west of Mass. Ave.

79. In typical Student Center fashion problems have set back the opening of the grille room on the mezzanine floor until Tuesday, October 26.

The contest for naming the new eating establishment has also been delayed a week. Contest details will appear in next week's issue of The Tech.

A tentative menu for the grille room lists an item called 'The Great Dome,' described as a "Banana supreme with 5 scoops of ice cream, banana, strawberry and pineapple syrup, with marshmallow and cherry." No price is listed.

80. While on the subject of the Student Center, informed sources assure us that the elevator controls will be changed so that when you want to go to the fourth floor you can touch the button marked four instead of the one marked five.

81. The new boathouse continues to rise from the Charles indicating it may be finished by this spring. We've heard that some type of dedication ceremonies are planned for March 31, but after the Student Center example we wouldn't count on that as the completion date.

82. A certain anonymous source, who happens to be Chairman of our Board of Directors, has informed us that the annual SAElor Dance (Nov. 6) will have an Indian theme. The theme is something like, 'I Kandiit, Canoe?'

83. Helpful Hints Column item #1: if you haven't taken the snow tires off your car from last winter, forget it.

# Kibitzer

By Mark Bolotin

North  
♦ Q 9 5  
♥ K Q 8  
♦ A 10 9 8  
♣ Q 7 5  
East  
♦ A K 10 4 3  
♥ J 10 9 4  
♦ J  
♣ 8 6 4  
West  
♦ J 7 6 2  
♥ 7 5 3 2  
♦ Q 5 4 3  
♣ 10  
South  
♦ 8  
♥ A 6  
♦ K 7 6 2  
♣ A K J 9 3 2  
Bidding:  
Pass 1 ♣ Pass 2 no trump  
Pass 3 ♦ Pass 3 no trump  
Pass 6 ♠ Pass  
Pass pass

Opening lead: 2 of spades

Here is an illustration of how a little knowledge of probabilities and the "rule of restricted choice" can help any bridge player improve his game.

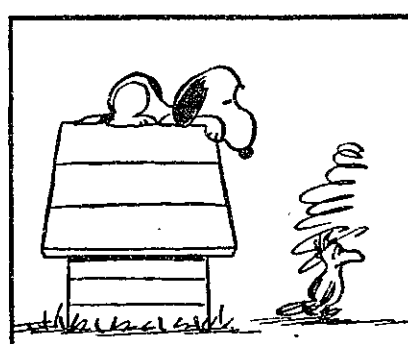
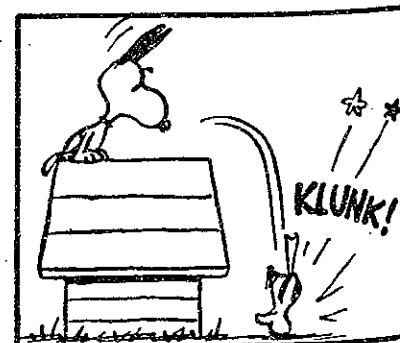
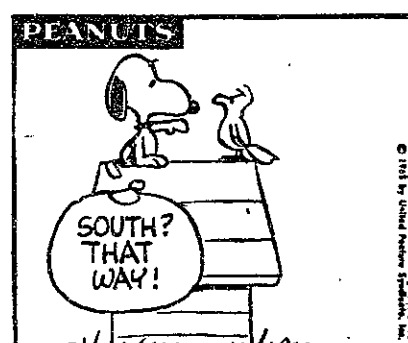
While the six diamond contract was not odds-on to make, declarer gave himself the best possible chance. The opening lead was taken by the king, then East switched to the jack of hearts. South won with the king and tackled the trump suit, missing five trumps to the queen-jack. However, declarer had no trouble picking up the suit without a

loser. He merely cashed the king of trumps, dropping the jack, then finessed twice for the queen. The only question concerns the finesse for the queen, rather than playing for the queen-jack doubleton.

This is where the knowledge of probabilities and the rule of restricted choice enter. The probabilities of the 3-2 break is 68%; of the 4-1 break is 28%. The Queen-Jack doubleton in East's hand is one of 20 different 3-2 breaks for 3.4%. The singleton Jack in East's hand is one of 10 different 4-1 breaks for 2.8%. This would make it seem as if the percentage way to play the suit would be to play the ace on the second round of the suit and to hope for the doubleton honor.

However, restricted choice changes these percentages. Assume East has the queen-jack doubleton. Half of the time he will play the Jack on the first round; half of the time the Queen. This means that the probability of the queen-jack doubleton in East's hand and East playing the jack on the first round is not 3.4%, but 1.7%. Therefore, South takes the percentage play of the finesse.

What happens when you are missing four cards to the queen-jack and an honor falls on the first round? You still finesse; the odds favor you 6.3% to 5%.





## Letters to The Tech

(Continued from page 4)

selves by holding an assistantship, either research or teaching. The Japanese delegation at MIT last year numbered 31. Seven students supported themselves from their own family resources; eight were holders of MIT assistantships; three were supported by MIT scholarships; one held a scholarship from an international source and twelve were supported at MIT by their companies in Japan.

In addition to these various sources of support, what is some-

times overlooked is that the Institute makes a very substantial contribution, at least equal to the tuition fees, to every student admitted to MIT.

The Foreign Student Office, as one of the specialized offices of the Institute's administration, tries to assist prospective applicants to MIT and later on when foreign students are actually enrolled in the Institute, to assist them as best it can in the many problems peculiar to them because of their foreign citizenship.

(Please turn to page 8)

## Stunt features 'copter

# Voo Doo goes "ape" in Great Court

By Tom Rozsa

Voo Doo soared to new heights on Friday as several copies of the slightly gross publication were carried aloft in a helicopter by a half-crazed gorilla.

Voo Doo's first publication for the new school year went on sale Friday, October 15. Traditionally, the staff of Tech's wildest publication plans a publicity stunt to give students an indication as to what they might discover if they read Voo Doo.

### Faunch championship planned

At 12 p.m., Voo Doo held the first annual American Faunch championship, to be played on the Great Court. Faunch is a jolly game which was first played by the ancient Aztec Indians and was later discovered by the Spaniards. Apparently the game did not win universal acclaim for no one since the conquistadors has played it. That is, not until a VD staff member discovered this exciting sport in an old volume in the Humanities Library.

Walt Kulek, '67, Makeup Editor of Voo Doo was the announcer and referee of the contest. As he began to announce the rules of the game of faunch, a large crowd of Techmen and visitors to the Institute gathered around him. He emphasized the fact that



Photo by John Torode  
Voo Doo helicopter seen landing in the middle of the Faunch field laid out in the Great Court.

it was Virgil's birthday and therefore the winner of the contest would receive a sixpack of Virgil's birthday cheer.

The game is similar to soccer; however in faunch, the contest is held with humans acting as goal posts. The faunch balls used by the ancient Aztecs were made of cow intestines, however, due to a shortage of cows around MIT, Walt used two square cardboard boxes as substitutes for faunch balls. The faunch playing field consisted of half of the Great

Court. The area was roped off and several campus policemen were on hand for the festivities.

### Guzzlers challenge tools

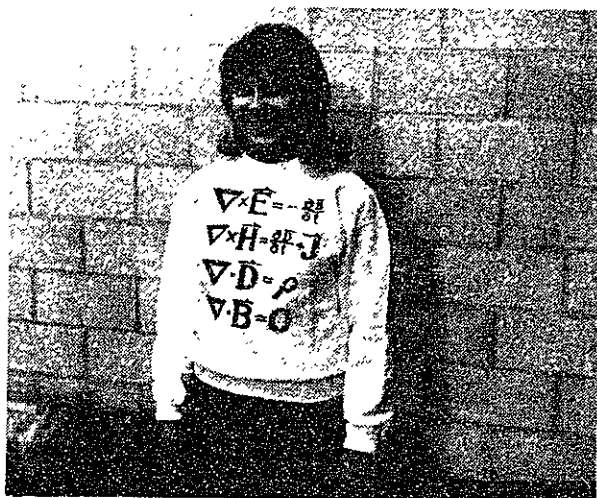
The faunch team consists of three players. The Voo Doo team, named the Guzzlers, consisted of John Marshall, playing left gronk; Dave Ellis, at right fuch; and Bob Pyndyck backing up as center shuveruors. Walt asked for three volunteers to play against this murderous team and surprisingly enough three techmen volunteered. The contest was ready to begin with the exception of one major drawback — referee Walt Kulek was having a difficult time trying to get volunteers to act as goal posts.

In the midst of the slight confusion, someone suddenly yelled out: "Look, up in the sky," a helicopter, and it was landing right in the middle of the faunch playing field.

This slightly upset the impending contest. It looked as though the game would be over before it got started, however, the action was just beginning. Out of the helicopter jumped a gorilla, played by Mike Levine, General Manager of Voo Doo. Apparently the gorilla was extremely interested in purchasing several copies of Voo Doo for he ran directly to right fuch, Dave Ellis, who was selling pre-game issues of Voo Doo.

(Please turn to Page 7)

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## The Bulletin Board

Compiled by the Public Relations Committee of Incomm, The Bulletin Board is a weekly service of the PRC and The Tech.

Meetings and events may be included in this article and in the MIT Student Bulletin by filling out a form in the Incomm office or in Mr. Jim Murphy's office in the Student Center at least 12 days in advance of the week the event is to occur.

The deadline for events of the

week of November 1-7 is today, October 20.

Further information may be obtained from Bob Howard (x3783), editor of the MIT Student Bulletin.

### Wednesday, October 20

4:00 pm—Freshman Cross Country: MIT vs. Boston College. Franklin Park.

4:30 pm—Varsity Cross Country: MIT vs. Boston College, Franklin Park.

5:00 pm—MIT Concert Band rehearsal. Kresge Auditorium.

5:00 pm—MIT Glee Club rehearsal. Rehearsal Room A, Kresge Auditorium.

7:00 pm—MIT Gilbert & Sullivan Society rehearsal. Kresge Auditorium.

7:00 pm—IFCY: PMC Meeting. Student Center, Room 407.

7:30 pm—APO meeting. The Student Center.

8:00 pm—MIT Outing Club. Lecture: Introduction to Winter Mountaineering. Room 4-270.

### Thursday, October 21

4:00 pm—JV Soccer: MIT vs. Stonehill. Briggs Field.

5:00 pm—MIT Glee Club rehearsal. Rehearsal Room A, Kresge Auditorium.

7:00 pm—SCEP: Meeting with Dr. Ben Snyder, Head Psychologist

(Please turn to page 6)

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## The Bulletin Board . . .

(Continued from Page 5)

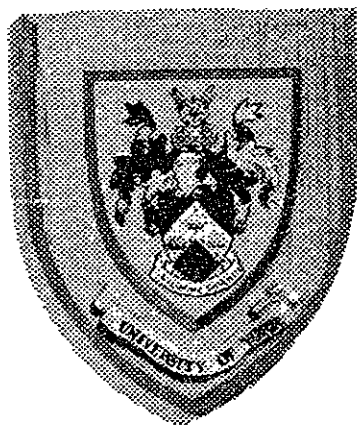
MIT. Student Center.  
7:15 pm—Tech Catholic Club. Lecture: Non-violence and Revolution. Speaker: Mr. Paul Chapman. Room 3-270.  
7:30 pm—MIT Civil Rights Committee open meeting. Lecture: Race Relations and Freedom in Boston. Speaker: Rev. Vernon Carter.  
8:00 pm—MIT SSRS: Lecture: Needed Improvements in Federal Security for the Protection of the Individual Scientist. Speaker: Joseph Fanelli, prominent Washington lawyer. The Bush Room, 10-105.  
**Friday, October 22**  
1:00 pm—MIT Islamic Society: Juma prayers. Rehearsal Room A, Kresge Auditorium.  
5:00 pm—Science Fiction Society meeting. Spofford Room, 1-236.  
5:15 pm—Tech Catholic Club: Philosophy Class. Room 3-133.  
7:00 pm—L.S.C. movie: Seance on a Wet Afternoon. 26-100.  
7:30 pm—Hillel: Friday Evening Service. The Chapel.  
8:00 pm—Pershing Rifles: Mixer, coke, chips, etc. Admission: men, \$1.00; girls, free. Student Center, Sala de Puerto Rico.  
9:30 pm—L.S.C. movie.  
**Saturday, October 23**  
9:30 am—Social Service Committee: Tutor orientation. Cider & donuts. The Student Center, Room 407.  
10:00 am—SCPE: luncheon for all MIT honor societies. Student Center, Sarah Pitt Dining Room.  
1:30 pm—MIT Bridge Club meeting. Walker Memorial. The Blue Room.  
1:30 pm—MIT Chess Club meeting. Student Center, Room 473.  
5:15 pm—L.S.C. movie: Father Goose. Admission: 50c. Room 26-100.  
7:30 pm—L.S.C. movie.  
8:00 pm—I.F.C. blast. The Armory.  
9:45 pm—L.S.C. movie.  
**Sunday, October 24**  
11:00 am—Protestant Worship Service. Sermon by Rev. D. H. Lee, preacher. The MIT Chapel.  
1:30 pm—MIT Chess Club meeting. Student Center, Mezzanine Game Room.  
2:00 pm—Radicals for Capitalism meeting. Open to public. Lecture: The Organization of the Social Sciences—A Proposal. Speaker: George B. Lyons, College of Wooster. Admission: 30c for non members. Student Center, Room 467.  
6:30 pm—MIT Concert Jazz Band rehearsal. Kresge Auditorium.  
7:00 pm—Tech Show Smoker. Refreshments. Student Center, Room 473.

## Movies & Theatres

Astor—'Ship of Fools.' 10:30, 1:05, 3:45, 6:20, 9:00.  
Beacon Hill—'What's New, Pussycat.' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00.  
Boston Cinerama—'The Hallelujah Trail.' Wed. at 2:00 pm; Sat. Sun and hol. at 1:30 and 5:00 pm; eve at 8:30 pm.  
Brattle—Kurosawa from Oct. 17—Nov 13. Daily 5:30, 7:30, 9:30; Sat. Sun matinees at 3:30.  
Capri—'The Collector.' 10:45, 1:05, 3:20, 5:40, 8:00, 10:00.  
Center—'Ghidrah, the Three-Headed Monster.' 'Creature of the Walking Dead.' 9:57, 4:20, 7:07, 8:44, 9:40.  
Cinema Kenmore Square—'Casanova 70.' 1:45, 3:45, 5:45, 7:45, 9:35.  
Exeter—'Laurel & Hardy in 'Laughing 20's.' short subject. 2:00, 3:40, 5:30, 7:20, 9:10.  
Esquire—'Fallini's '84.' 7:15, 'Flame in the Streets.' 9:30.  
Fine Arts—'The Naked Night' and 'Smile of a Summer Night'.  
Gary—'Sound of Music.' eve at 8:30. Sun at 7:30, daily matinee at 2:00.  
Harvard Square—through Tues. 'All These Women.' 3:10, 6:35, 10:00. 'Sunset Blvd.' 1:20, 4:40, 8:05.  
Loew's Orpheum—'Marriage on the Rocks.' 10:20, 12:40, 2:55, 5:10, 7:30, 9:45.  
Mayflower—'Von Ryan's Express.' continuous showings.  
Music Hall—'The Reward.' 10:12, 2:00, 4:00, 6:00, 8:00, 10:00.  
Paramount—'Horror of Spider Island' and 'Fendish Ghouls.' 9:30, 11:00, 12:25, 4:30, 6:45, 7:15, 8:30.  
Paris Cinema—'The Knack and How to Get It.' 1:15, 3:00, 4:45, 6:30, 8:15, 10:00.  
Park Square Cinema—'High Infidelity.' 1:30, 3:30, 5:30, 7:30, 9:35.  
Savoy—'A Rage to Live.' 7:45, 9:45.  
Saxon—'My Fair Lady.' eve at 8:30. Sun at 7:30, matinee Wed, Sat, Sun and hol. at 2:00 pm.  
Symphony Cinema—'A Taste of Honey.' 5:15, 8:45. 'Loneliness and the Long-Distance Runner.' 7:00, 10:00.  
Uptown—'The Saboteur.' 11:00, 3:10, 7:25, 'Ghenghis Khan.' 1:10, 5:20, 9:40.  
West End Cinema—'Male Hunt.' 7:07, 9:05.

### THEATRES

Charles—Moliere's 'The Miser.' Tues. thru Fri. 8:30; Sat 5:30, 9:00; Sunday at 7:30.  
Shubert—'Kismet.' Tues. thru Fri. 8:30 pm; mat. 2:15; Sat. mat. 2:30.  
Theatre Co. of Boston—'Play' by Samuel Beckett, and 'The Lunch Hour' by John Mortimer; Oct. 20-Nov. 7.  
Wilbur—'The Devils.' opens Oct 17 Mon thru Sat 8:00; mat Thurs 2:15 Sat. 2:30 pm.



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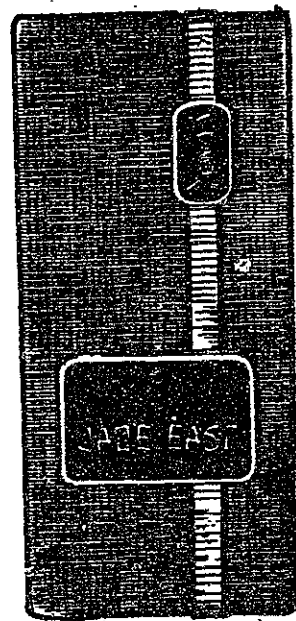
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# Gorilla runs amuck amidst VD staff; refuses to pay an additional nickel

(Continued from Page 5)

Apparently the gorilla did not know that the price of Voo Doo had increased from 35c. to 40c. a copy. The right fuch demanded 40c. and the gorilla promptly refused. After a considerable argument, the gorilla grabbed a copy of the emerald colored issue and threw 35c. at the right fuch.

**Upset gorilla upsets Doo Doo**

Suddenly a wild melee began. Dave Ellis, the right fuch attempted to regain possession of the stolen Voo Doo but the gorilla clobbered him with the issue, ripped part of the Voo Doo sign, and began to run toward the heli-

copter. Walt Kuleck, with some help from the left gronk, the center shuvenupors, and a slightly limping right fuch attempted to stop the gorilla while demanding the extra nickel. The gorilla, by now extremely savage, still retained part of the wooden support of the sign he had ripped, and he promptly clobbered Walt and company.

The gorilla eventually staggered to the helicopter and took off, and much to the regret of all, the game had to be called off.

After long deliberation, the VD members decided to give the game of faunch back to the Aztecs.

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## College World

By Jeff Trimmer

The Junior Show at Wellesley College is, for the uninitiated, one of the more enjoyable events at Wellesley. Equally important as the springtime Tree Day event, the Junior Show is a musical comedy presented each year by the Junior class.

Junior Shows at Wellesley are not normally renowned for their artistic element — no Junior Show would ever beat My Fair Lady in number of runs. But Junior Show is a delightful experience, both for the participants and for the audience. The key to this lies in the philosophy that underlies Junior Show. Junior Show is for fun — no one is trying to make money, no one is trying to create a musical masterpiece. What they are trying to do is enjoy themselves in gently poking fun at Wellesley, at boys, at colleges in general and sometimes at society as a whole.

They have fun, fun, fun . . .

This year's Junior Show, "One Knight's Stand," was excellent; it was excellent in the traditions

## MIT: Matriarchs in Training According to Wellesley Junior Show

of Junior Shows because it was fun.

"One Knight's Stand" was a social satire, but certainly not a bitter one. Imagine if you will a knight, bumbling and extremely unwise in the social graces. This knight, Weritas by name, is noble in spirit, however, but only the queen, Tuper 'Aura, can see his true virtues. Tupel 'Aura, played by the talented and beautiful Diane Sawyer, a former Miss Something-or-other, must convince her six sisters that Weritas is princely enough to be worthy of marrying her and becoming king.

Seven Sisters represented

Tupel 'Aura represents the spirit of Wellesley; in her sisters the rest of the Seven Sisters are represented. There is Jonesy (Smith), Gwenmawr (Bryn Mawr), Sweet Hollyhock (Mt. Holyoke), Cliffia (Radcliffe), Vas-sandra (Vassar), and Abarnadine (Barnard). Each part is played in typical fashion representing the stereotyped image of the girls at these schools. Perhaps a special note should be made of Sweet Hollyhock, played by Polly Gamb-rill, whose portrayal of the sugar 'n spice girl from Mt. Holyoke was magnificent.

Tupel 'Aura attempts first through social events to show that Weritas is noble enough to be king. But Weritas cares not for teas, and his bumbling eti-

quette fails to enamour him to the other sisters. Athletics (joust-ing) holds no attraction for Weritas either, as he sees no need for bloodshed. He completely disrupts the kingdom by talking the knights into refusing to joust. It is in this joust scene that some of the musical talent comes out. 'Twist and Joust or I wanna Wear Your Scarf' and 'Gory, Gory, Hal-lelujah' are tremendous.

Weritas finally triumphs as he, through his bumbling, manages to rescue Tupel 'Aura from the clutches of the witch, Tarantula, played by Betsy Gesmer.

The play is sprinkled throughout with excellent lines. MIT becomes Matriarchs in Training, and Harvard and Princeton fall before the onslaught as well. Seniors, sophomores, freshmen and the college are all gently cut.

Staging, costuming, dancing and music were combined to make this show a standout from past shows. Much credit for this should go to Diane Sawyer, chair-man of the show and lead, and her Cape Committee, which wrote and rewrote the show. The actors from the Bard (a type of stage manager), portrayed by Sue Har-mon, to the Jousting Coach, played by M. E. McAdam, were good, not because they were tremendous actresses or vocalists, but because they were doing what the show intended — they were having fun.

This year's Junior Show has been invited to play in New York over Christmas vacation for a Wellesley alumnae group. It is hoped that future Junior Shows can maintain this tradition of excellence.

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## Cambridge Madrigal Singers seeking new members; meeting Thursdays

The Cambridge Madrigal Singers, under the direction of Samuel C. Goldman, began its 1965-1966 season on Thursday, October 14, and will meet every Thursday evening from now on. The group, which is now open to new members, sings traditional Renaissance and post-Renaissance Madrigals and Airs and other mu-

sic suitable for small choral groups. The Madrigal Singers meet chiefly for their own enjoyment and give one or two informal concerts a year. Men and women who wish to join the group may call either Mr. Goldman, at 547-1454 or Mrs. Anne Kaplan, at EL 4-2577 for more information. All voices are welcome, some choral experience is desirable.



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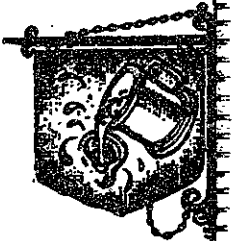
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## The Tech interviews...

# Orchestra combines old with new

By Sam Cohen  
Professor David M. Epstein holds degrees from Antioch College (A.B. '52), New England Conservatory of Music (M. Music '53), and Brandeis University (M.F.A. '54), and has studied under Irving Fine, Darius Milhaud, Milton Babbitt, Arthur Berger, Izler Solomon, and George Szell. Since then he has been a music critic for Musical America (1956-57), Associate Professor of Music at Antioch (1958-61), and music director of WNDT educational television in New York (1962-64). He is also founder of the Youth Symphony Orchestra of New York.

Professor Epstein has a symphony, two jazz compositions, and numerous orchestral and chamber works to his credit. His music was performed at the Aspen Music Festival and by the Louisville Orchestra, as well as by numerous European groups. He was appointed by George Szell as the Kulas Foundation Conducting Fellow of the Cleveland Symphony for 1960-61. In 1964 he received the Alumni Composition Award of the New England Conservatory. He is currently working toward his Ph.D. at Princeton.

Cohen: Can and do the MIT music activities and music dept. play a constructive role in the MIT-Boston community?

Epstein: Not being in Boston long enough, I don't know whether they do. I know, however, that they can.

Cohen: Could you explain?  
Epstein: Presently, music is a cheap commodity. It's played in bars, supermarkets, elevators—you name it. This has caused many to lose their music perspective. People no longer use music in its most remunerative ways. The best reason is fun, but it is senseless to talk about fun in participation at MIT.

Cohen: Is that an insult or...  
Epstein: Don't misunderstand me. What I mean is that participation is limited to a small group. Nor is everyone willing to play an instrument. The most important aspect of the MIT Orchestra, is



Photo by Jim Robertson  
Professor David M. Epstein recently joined the MIT music department as associate professor of music and conductor of the MIT Symphony Orchestra.

that it is a collegiate rather than a commercial organization. Do you realize that most concert halls resemble museums, some even mausoleums?

Cohen: Are you referring to the quality of the music played?

Epstein: No, just to the repetitiveness. For instance, Beethoven symphonies were played over 300 times by the major American orchestras last year. At universities students are dedicated to innovation and curiosity. The audience is not stodgy. This is especially evident in Boston where there is such an age gap. There are relatively few "young adults" in the city; most are either college students, class of 1965, or college dropouts, class of 1925. The commercial orchestras must appeal to the established but stolid audience. You don't.

Cohen: What innovations are you planning for your first concert?

Epstein: On December 4 we are playing four arrangements—two traditionals and two Boston premieres. The 'Emperor Piano Concerto' by Beethoven and a Handel suite are the traditional pieces.

Cohen: Who is the pianist?  
Epstein: Lebow—he's young but talented. He's played many con-

certs in New York, though I think that this might be his first in the Boston area.

The two other pieces are Charles Ives' '3rd Symphony' and Walter Piston's '2nd Suite for Orchestra.'

Cohen: The selections are impressive, but is your orchestra responsive enough?

Epstein: They're the quickest amateurs I've ever worked with. I shouldn't boast but I've got some top professionals in the group. One was first trumpet under Joseph Krips at Buffalo. Another was first flute at Cornell.

Cohen: Then are there any limiting factors on the pieces you might play?

Epstein: Yes—two. The first is size. The orchestra is well rounded but is still small with just over fifty players. We could use about 12 violins and three violas in the second and third sections. The other sections are very strong though we wouldn't turn any qualified musician away.

The other restriction is on the 12 tone music. It would take at least 4 months to prepare for a really difficult piece, say Riegger's '3rd Symphony.' This got quite a reception in N.Y.; conceivably it could do better here.

## 'Kumsitz' to be held by Hillel Saturday

MIT Hillel Student Zionist Organization will host this year's first New England regional 'kumsitz' Saturday, October 23 at 8:00 pm in Morss Hall of Walker Memorial. Admission will be \$.50 for Hillel members and \$.75 for non-members.

The kumsitz, a type of Israeli hootenanny, will feature professional entertainment as well as general folksinging and dancing. Refreshments will be provided. For further information, contact Irv Joffe (Bexley 210), Jerry Milch (East Campus) or Charles Newman (East Campus).

## theatre...

# 'The Devils' flashy and colorful

By Andy Seldentfeld  
Nowadays it is not too often that one sees a play with a large cast, colorful costumes and flashy scenery. Well, except for the fact that the scenery is not too exciting, one such play has just hit the town. I'm referring to 'The Devils.'

This play is based on a book by Aldous Huxley. His subject is quite simple: human beings. The action takes place in 17th century France. Sister Jeanne of the Angels needs a new spiritual advisor and writes to the libertine priest Urbain Grandier requesting him to take up this position. He informs her that he cannot accept. So she accuses him of causing demons to possess the nuns. Middleclass citizens being what they are, namely the fact that jealousy and hatred are forever present, eventually cause the downfall of this man. We learn that even the Church contains within it human beings with

'THE DEVILS' based on a book by Aldous Huxley; at the Colonial Theatre; starring Jason Roberts as Urbain Grandier, Ann Bancroft as Sister Jeanne with John Colicos and James Coco; directed by Michael Cacoyannis.

all the good and bad qualities that are expected.

Associated with this production are names such as Jason Roberts, Ann Bancroft and Michael Cacoyannis.

Urbain Grandier is portrayed by Jason Roberts whose performance will certainly not be forgotten by those who go see this play. His performance is quite clearly the highlight of the evening. It is towards the end of the play that we understand who Urbain Grandier really is: when he is suffering and realizes in life all is not 'easy come, easy go.'

Stage and screen award-winning actress Ann Bancroft plays the part of the trouble-maker, Sister Jeanne. This production

certainly makes use of Miss Bancroft's acting abilities. Although this is perhaps not as outstanding a performance as the role of Annie Sullivan in 'The Miracle Worker,' one definitely feels that there are not many actresses that could play the part of the nun as convincingly.

The director, Michael Cacoyannis—who I am sure you all remember for presenting us with 'Zorba the Greek'—proves that he is truly a master of both stage and screen directing. Even though the stage is sometimes overcrowded, he nearly always manages to have the audience focus attention on the proper subjects, at the proper time. However one cannot help but notice the fact that when scenery moving takes place it is not done very skillfully: the audience is always aware of scenery coming down onto the stage and other shuffling taking place. However, full use of the stage is made to carry the audience along.

The lighting is far from good. At times the lights were not faded out properly or the spotlight was not on fast enough to catch some action. It is unfortunate that something that could be corrected as easily as this is not polished up.

Oh yes, in case you go and see this play, let me just warn you that it is three and a half hours long. Make sure you have enough time to get back in time for your date's curfew.

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## A tasteful blending of two arts

By Monk

Last Saturday afternoon saw the successful blending of two forms of art which are usually thought of as separate. The Cannonball Adderly Quartet stood on the steps of our virgin Student Center, and, dwarfed by its bold, stark facade, consummated a marriage of architecture and music. The ever-present, brisk autumn breeze carried their darting tones upwards to the roof of the structure and out over Massachusetts Avenue, over the din of inquiry, and on toward the following harbingers of rain . . .

### Joe and Eddie draw nearly full house

By Rob Taylor

A near capacity crowd of over 1100 sang, snapped fingers and thunderously applauded Joe and Eddie in last Saturday night's Class of '66 concert in Kresge Auditorium. The young duo from the West Coast, singing in a style which they themselves have described as somewhere between "folk-rock" and "gospel-jazz," put on a show which was described by Ken Browning, '66 President, as "very successful, both financially and socially."

Arriving Saturday afternoon from a performance at Brown University, Joe Gilbert and Eddie Brown, together with their entourage, were guests of honor for cocktails and dinner at the SAE house. Immediately following the concert here, they left for a Sunday concert at Amherst.

The quartet played continuously for nearly two hours, combatting the numbing effects of the wind with more than moderate success, a fact to which the audience of over 1200 will readily attest. The audience, I might add, remained quite unaffected by the cold, dispelling chills by hand-clapping, finger-popping, and foot-stomping to Roy McCurdy's drum beat.

The music was all Cannonball, displaying his philosophy that jazz, as a medium, should be perpetuated, molding both old and new elements into a package of musical pleasure. His selection of tunes amplified this point, ranging from the sometimes unmelodious funk of Thelonius Monk to Wat Adderly's 'Jive Samba' to a rendition of 'Stomping at the Savoy' (during which he spoke pure Goodmanese), to the somewhat third-stream selection, 'Domination.'

The group displayed the close-knit structure that has characterized them for years. Wat, the younger Adderly, spoke with an easy clarity and swing through his cornet, proving to all that he has indeed matured from his early days of high-pitched irrelevancies. His sense of humor and control of his horn in the low register were a delight.

The steady, reliable Sam Jones on bass was just that, complementing the newest member of the quartet, drummer Roy McCurdy. McCurdy joined the aggregation three months ago when the

lithe and lugubrious Louis Hayes took leave to join the Oscar Peterson Trio. Let it suffice to say that Hayes was not missed.

The most impressive musician of the afternoon was Joe Zawinul, the group's Viennese pianist. His fingers were agile vehicles for the vivid expression of his 'American soul.' His duet with Jones on an original composition, while it might have upset his forbears, brought an enthusiastic response from the audience through its delicate but avant-garde beauty and the skill of the man.

The event was brightened still further by Cannonball's wit which managed to touch even the oft-stifled spirits of Techmen in attendance.

Thus, despite the admitted inadequacies of the outdoor sound system, the marriage of music and architecture was a successful one. And anything that was lacking along the lines of love between the partners was more than made up by sheer physical attractiveness.

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### New Tom Lehrer album on sale: That Was The Year That Was'

By Rob Taylor

That Was The Year That Was (Reprise 6179) is the fifth and most recent album to give testimony to the creative and satirical genius of Tom Lehrer. A collection of fourteen original songs by Mr. Lehrer, nine of which were performed on NBC's weekly "That Was The Week That Was," the album was recorded last July in San Francisco's famous night spot, the hungry i, and stands as a near-libelous account of the news of the previous six months. Although the lyrics are disappointingly lacking in the atrocious rhymes which have marked Mr. Lehrer's earlier efforts, the overall quality of both songs and commentary are felt by this reviewer to be of a decidedly higher standard than in the past and, because of their irreverent relevance to current events, are of additionally greater interest and amusement to the listener.

Tom Lehrer kicks off his album with a song praising the success of National Brotherhood Week, especially noteworthy this year because as Mr. Lehrer reminds us, Malcolm X was killed on the first day of the Week. Songs dedicated to newly-elected Sen. George Murphy of California, the Marines, and pollution, in which he advises foreign visitors to the U.S. of two dangers ("Don't drink the water and don't breathe the air"), follow in glittering array. Other people and topics left unsparred by Tom

Lehrer's wit are Hubert Humphrey, whose plunge from public view is heart-rendingly lamented, the New Math, Dr. Wernher von Braun, and, lastly the Ecumenical Council, whose efforts at making Catholicism accessible and "more commercial" Mr. Lehrer decides are too conservative; in an attempt to help them "sell the product," he suggests one of his own works. Mr. Lehrer's offering, bearing the name "The Vatican Rag," is an unabashed instruction lesson to modern converts, guaranteed to send anyone into an agony of laughter, with the possible exceptions of Cardinals Cushing, Spellman, MacIntyre, and Montini.

(Mr. Lehrer is currently an instructor in the Dept. of Political Science here. In his capable hands are entrusted the care and destinies of all students taking 17.731 and 17.731.

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### THIS WEEK MUSIC

**New England Conservatory**—Conservatory Symphony Orchestra, Frederick Prausnitz conducting; Oct. 20, 8:30 pm; Jordan Hall; admission free. Program: Schoenberg, Piano Concerto; Schumann, Symphony No. 3, and five songs from Mahler's 'Des Knaben Wunderhorn.'

**Gardner Museum**—Carl Davis, piano; Oct. 21, 3:00 pm; admission free. Program: Schubert, 'Ländler,' Opus Posthumous; Mozart, 'Sonata, E flat major,' K. 282, and Debussy, 'Les Collines d'Anacapri.'

**Boston Symphony Orchestra**—Erich Leinsdorf conducting; guest cellist, Mstislav Rostropovich; Oct. 22, 23; Symphony Hall. Premiere of Benjamin Britten's Cello Symphony; also Dvorak's Cello Concerto.

**IFC**—Blast, Oct. 23; Jerry Lewis and Company; MIT Armory; admission \$5.00; refreshments included.

**The Thursday Evening**—John Perry, folk-singer; Oct. 23; MIT Ashdown House Pub, 305 Memorial Drive.

**Gardner Museum**—Amnon Levy, Violin; Oct. 23, 3:00 pm; admission free. Program: Bach, 'Partita for Violin Solo,' E major; Paganini, 'Caprice No. 11,' C major; Kreisler, 'Recitativo' and 'Scherzo.'

**Gardner Museum**—Elias Lopez Soba; Oct. 24, 3:00 pm; admission free.

**Wellesley**—New York Pro Musica, concert; Oct. 25, 8:00 pm; Alumnae Hall.

### LECTURES

**Ford Hall Forum**—Meyer Levin, 'Religious Minorities in the Soviet Union,' Oct. 24, 8:00 pm; Jordan Hall; admission free.

**Radicals For Capitalism**—George B. Lyons, College of Wooster, 'The Organization of the Social Sciences—A Proposal,' open meeting; Oct. 24, 2:00 pm; Julius A. Stratton Student Center, Room 407; admission \$3.30.

### THEATRE

**Boston University Theatre**—Six Characters in Search of an Author, by Luigi Pirandello; Oct. 21-23, 8:30 pm; 264 Huntington Ave.

**Tufts Arena Theatre**—'The Devil's Disciple,' by Shaw; Oct. 22, 23, 29, 30 at 8:15 pm. 623-3880.

**New England Life Hall**—In White America, Oct. 20-25, evening; Thurs. Sun. matinees; tickets \$2.80 to \$4.50 by mail from 'In White America,' New England Life Hall, 225 Clarendon Street, Boston.

**Next Week Music**

**New England Conservatory**—Miklos Schwab, piano; Oct. 27, 8:30 pm; Jordan Hall; admission free. Program: Schumann, 'Fantasy in C major,' Liszt, 'Sonata in E minor,' and works by Haydn and Leo Wein-

**Folklore Series**—'The Establishment,' a show featuring Peter Cook; Oct. 29; Jordan Hall. Folklore Productions HU 2-1827.

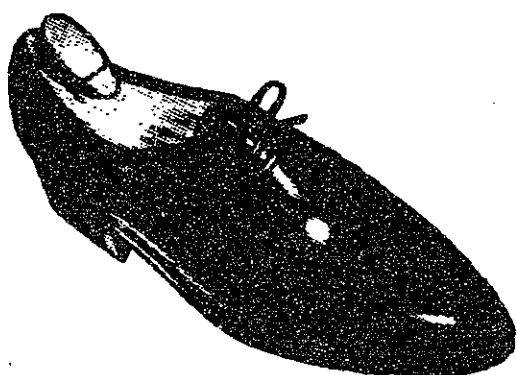
**Boston Symphony Organ Series**—Simon Preston; Oct. 31, 8:30 pm; Symphony Hall; tickets \$1.50; \$5.00 subscriptions to all 5 of series sold until Oct. 31.

**Humanities Series**—String Quartet: Leonard Sorkin, violin Abram Loft, violin, Gerard Stanick, viola, and George Sopkin, cello; Oct. 31 3:00 pm; Kresge Auditorium; series tickets \$10.00; single tickets \$3.00. UN 4-6900, x2910. Program: Beethoven, Quartet in E flat major, Op. 127; Quartet in F Major, Op. 15, No. 1; Quartet in C major, Op. 59, No. 3.

### THEATRE

**Tufts Arena Theatre**—'The Devil's Disciple,' by Shaw; Oct. 23, 29, 30, 8:15 pm; 623-3880.

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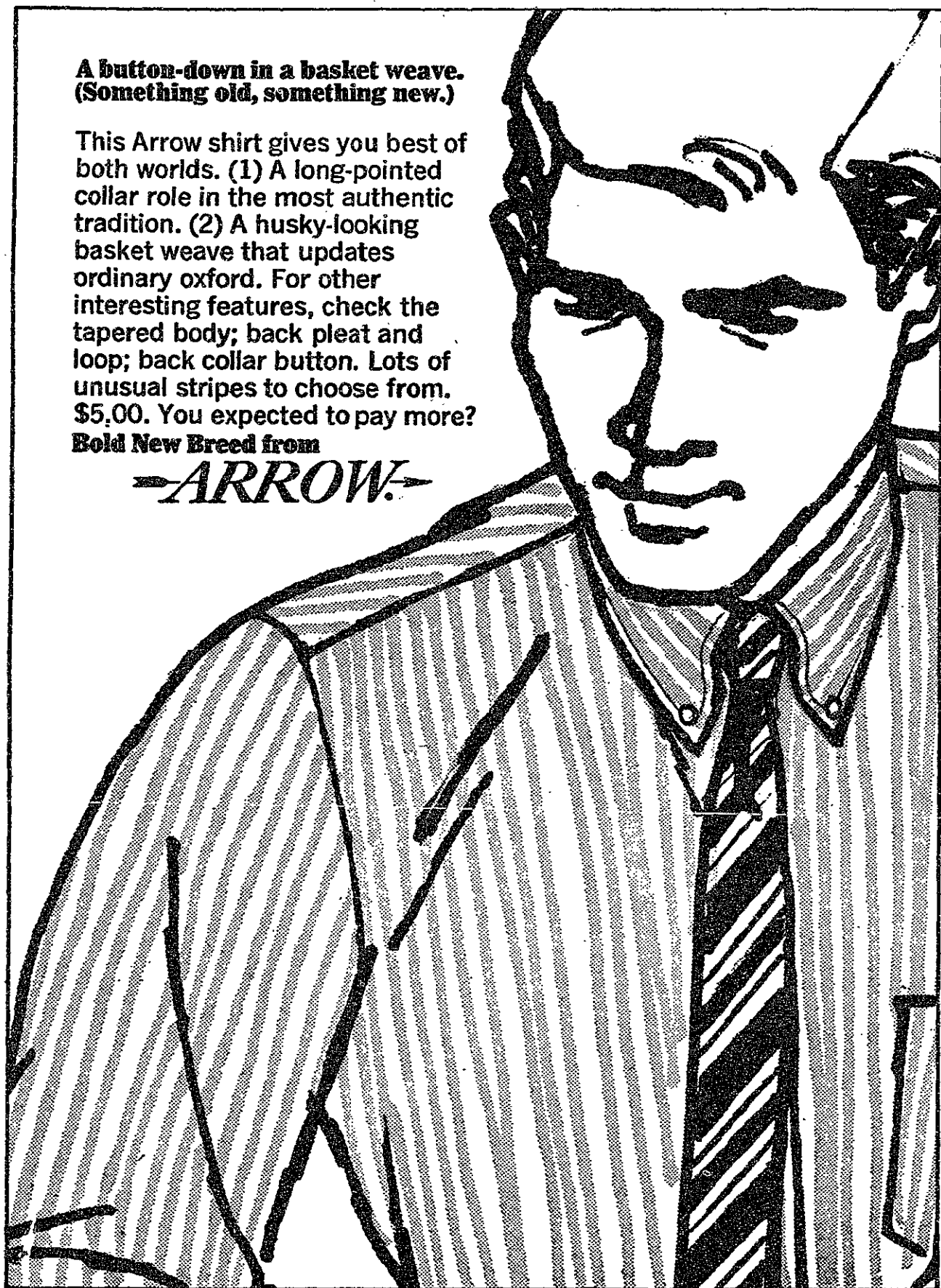
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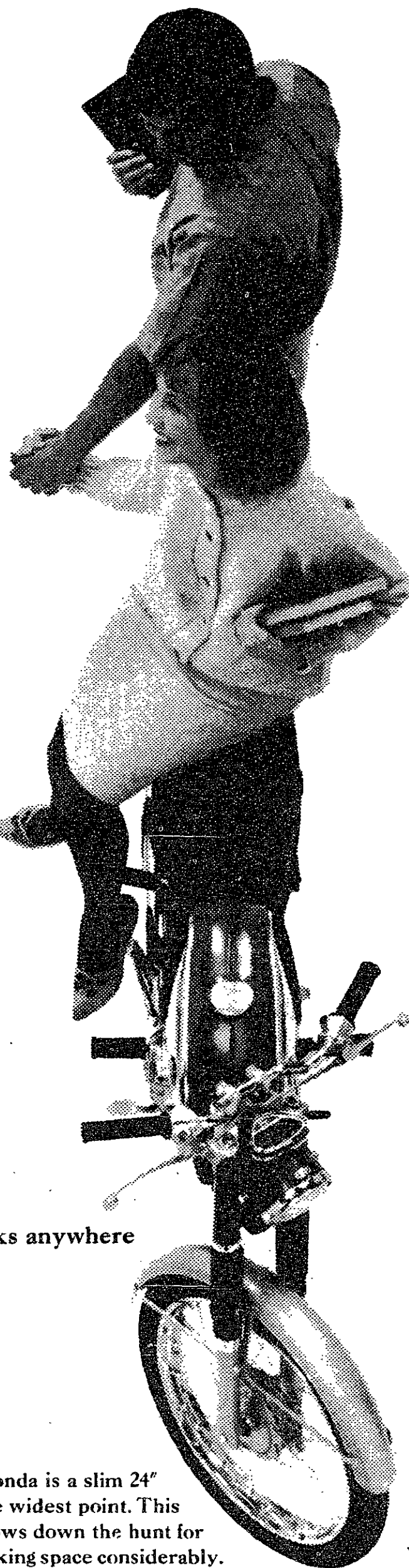
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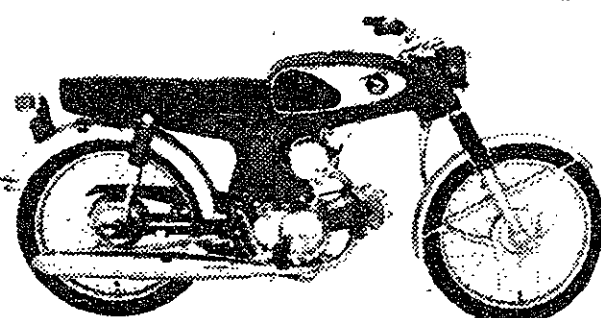
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## Intramural tennis tournament into quarterfinals —Pi Lambda Phi eliminates defending Baker A

Baker "A," defending champions of the IM tennis tournament went down before the hot rackets of the Pi Lambda Phi "B" team in second round action on Saturday. Individual winners for Pi Lam were Al Greenfield '69, Steve Wiener '69 and Fred Stone '66 and Ken Estrich '66 in the doubles.

On Sunday Chinese Students "A" tripped the same Pi Lam team 3-2 in the first of the quarter-finals matches. In other second round contests shutouts were

tallied by SAM, Ashdown "A," and AEPI. The last of the first round matches found SAE defeating Phi Sigma Kappa 5-0 and Sigma Chi downing Sig Ep 3-2.

### Other Scores

Second Round: SAM 5, NRSA 0; Chinese Stud "A" 4, TEP 1; Lambda Chi Alpha 4, Chinese Stud "B" 1; Pi Lambda Phi "B" 3, Baker "A" 2; Ashdown "A" 5, DU 0; AEPI 5, Sigma Chi 0; Grad Econ 3, Fiji 2.

Quarter Finals: Chinese Stud "A" 3, Pi Lambda Phi 2.

## LASA dedicated

## Big step towards nuclear ban—LBJ

By Bob Horvitz

"With the dedication of the new Large Aperture Seismic Array (LASA) installation in Billings, Montana, this country is taking another step toward a comprehensive nuclear ban," declared President Lyndon B. Johnson in a message to Secretary of Defense Robert S. McNamara on Tuesday, October 12.

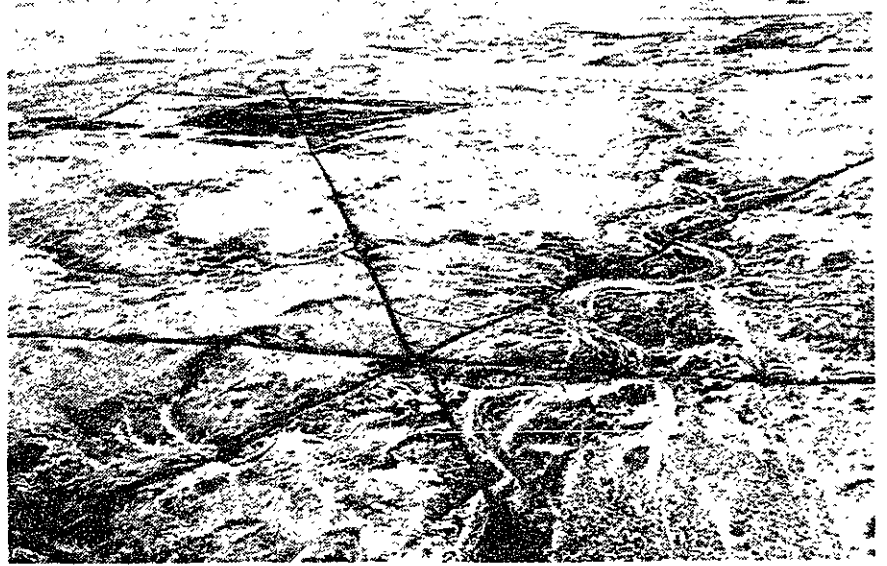
LASA is the focal point of the current experimental program of MIT's Lincoln Laboratory, the development and evaluation of improved methods for detecting and identifying underground nuclear explosions.

### Test seismic disturbances

The only long range evidence of a contained underground nuclear explosion is the seismic disturbance that it generates. The Lincoln Laboratory research program is concentrated on the design and testing of seismic sensing and signal processing systems that will make it possible to detect relatively small explosions at long distances and to identify a larger fraction of earthquakes which produce signals similar to nuclear explosions.

By eliminating almost all recorded disturbances produced by earthquakes, the total number of unidentified events remaining will include all detectable underground nuclear tests. LASA is primarily designed with the objective of providing a substantial improvement in seismic discrimination capabilities and also to serve as a powerful new tool for advanced seismological research.

To discriminate reliably between an underground nuclear test firing and a natural seismic event of comparable magnitude it is necessary to recognize all events which are earthquakes. To do this it is essential to obtain



An aerial view of a single LASA subarray, part of an experimental program by MIT's Lincoln Laboratory in Billings, Montana. Each subarray contains 25 buried seismometers, four along each black line and one in the center.

clear, uncluttered signals from the event of interest.

Previous investigations, with individual sensors and existing seismic arrays, have established the existence of criteria for identifying earthquakes if the received signals are sufficiently clear and unambiguous.

### Suppress seismic noise

If the event is weak and/or distant, it is necessary first to suppress seismic noise uncorrelated with the desired signal but occupying the same general region of the frequency spectrum, and it is also necessary to suppress reverberation caused by the signal itself.

The achievement of these two objectives, to the extent necessary to identify reliably, at great distances, earthquakes comparable to explosions of less than several tons of kilotons, requires a highly directional detector array.

Such an array should be appreciably larger than the wavelengths of the signals of interest, which are in the order of ten kilometers, with individual detectors close enough together to realize the desired directivity. The signal enhancement produced by a large array may be further

increased by suitable data processing, which may also yield information about the epicenter or location of the disturbance and the depth at which it took place.

The LASA array has an overall diameter of about 125 miles. Located near Miles City, Montana, it is made up of 21 subarrays arranged in a pattern of superimposed squares. Each subarray is about 5 miles in diameter and contains 25 seismometers sited along six equally spaced radial lines, connected to a central underground subarray terminal by cables buried three feet below the surface of the ground.

The LASA array and associated facilities is in itself a powerful tool to aid in improved seismic identification of earthquakes. In addition, it is a test bed for the discovery and development of new identification criteria, and some provisions for modifications and improvements are incorporated in the design.

Finally, as a source of seismic signals of unprecedented clarity and detail, LASA will certainly prove to be a valuable scientific instrument for studying the interior structure of the earth and the nature and causes of earthquakes.

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## Lacrosse team prepares for spring; hopes high for successful season

By Neal Gilman

Scrimmaging for the last few weeks in preparation for warmer months, the MIT lacrosse team, coached by Ben Martin, promises to have an extremely successful season next Spring. Led by Most Valuable Player, Co-Captain Peter Kirkwood '66 and high scorer Steve Schroeder '67, the team has all but four letter men returning this year. Since last year's squad had the most successful season in four years with a 7-3-1 record, the present team with the experience behind it, should do even better, with the New England Championship as its goal.

### Team wins scrimmage

The team recently had a scrimmage with the Boston Lacrosse Club and at times showed its potential that may carry it to the championship. Although the squad played ineptly at times, failing at some basic fundamentals, it controlled the ball the majority of the time, outscoring B.L.C. 12 goals to 7.

### Schroeder shifted

In attempt to fill the gap left by the graduating Co-Captains Ron Mandle '65 and Marshall Fisher '65, Coach Martin has switched Schroeder, originally a

midfielder, to attack, joining Kirkwood and Dick Nygren '66. The midfield had good depth with the returning lettermen, Art Von Waldburg '67, Greg Wheeler '67, Terry Vander Werff '66, Loren Wood '66, David Avrin '67, and Neal Gilman '67. The defense, centered around Co-Captain Bill Kosinav '66 and Ralph Schmitt '66, will have its gaps filled by Bob Smith '67 and Herb Finger '68. Bob Macdonald '66 and Garland Taylor '67 remain as the team's first string goalies.

The team with its depth and maturity should produce one of the most successful records MIT has had in years.

## Alloy stress ordering topic of Cahn lecture

Robert Cahn, professor of Materials Science at Sussex, lectured last Friday in the Vannevar Bush Room on "Stress Ordering in Copper-Gold Alloys."

The lecture was presented in a joint session of the Materials Center Colloquium and the Metallurgy Colloquium.

## Press to deliver Sigma Xi lecture

Professor Frank Press, Head of Department of Geology and Geophysics MIT, will speak at the second annual lecture of the MIT chapter of Sigma Xi, the research honorary. Topic of his talk will be "The Earth's Interior: Recent Advances and Implications."

The lecture is scheduled for Thursday, October 28, at 8:00 pm in Kresge Auditorium.

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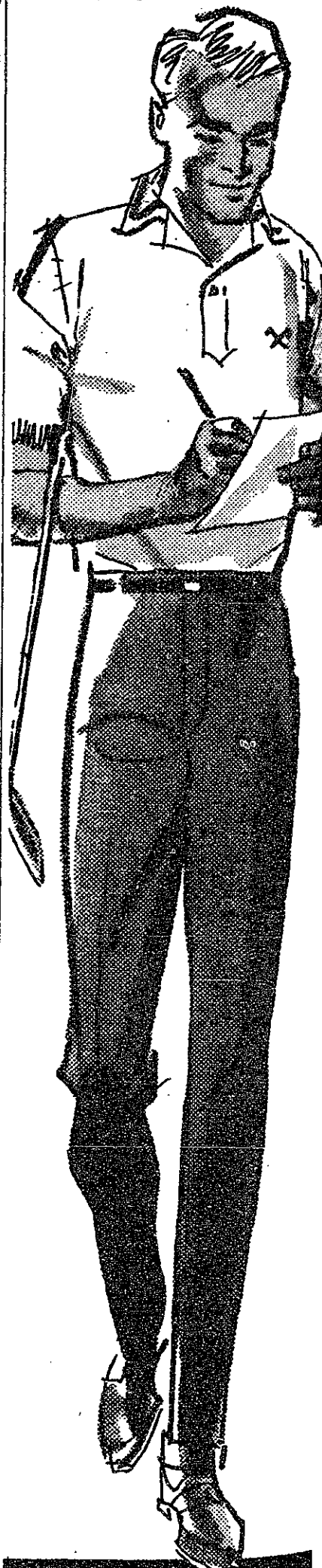
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## the sports spot

By Tom James

The MIT Sports Car Club got off to a roaring start this year, as it opened with its semi-annual auto cross at Orange Airport in Orange, Mass. Since Massachusetts state law prohibits auto racing with more than one car on the track at once, the sports car club sponsors a timing at Orange over a 1.7 mile track. While the club provides for seven classes, there were 59 entrants in six classes this fall.

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## Sports car club active

Membership about 30

According to George Nybakken '67, president, the club is now in an upsurge of popularity. Total paid membership is around thirty, but prospects especially in the class of '69 look bright. The other officers of the club include Ted Warren '67, vice-president; Harry Goldmark '68, Secretary; Rog Schmidt '67, Treasurer; and Wayne Hawkins '67, Activities Manager.

Nybakken, who drives a mini himself, explained that owning a sports care is not a prerequisite to membership: indeed, less than half of the members own their own cars. The club consists of auto enthusiasts who enjoy talking and working at Orange, as well as driving. Some of the advantages of a club include dis-

counts on parts and help from fellow members in working on cars and in transportation. Naturally, competition in near-by rallies—which the club helps to promote—is encouraged, but at Orange, for instance, most of the membership was required to run things.

**Meeting next Tuesday**

Meetings are held usually twice a month, on every other Tuesday evening. The meetings are characterized by speakers talking on cars and racing, and by racing and rallying films. The next meeting, which is open to all those who wish to attend, will be held at 8:00 p.m. Tuesday, October 26, in room 4-370. Featured at that time will be a speech by Richard Marks, an MIT graduate student, about Triumphs.

## IM wrestling tournament Friday; Betas, PDT, LXA among favorites

By Steve Wiener

The intramural wrestling tournament will be held Friday night and Saturday afternoon, Oct. 22 and 23, in the Dupont Athletic Center. The matches which are expected to draw over 300 spectators, will feature defending champs Beta Theta Pi and formidable challengers such as Lambda Chi Alpha, Phi Delta Theta, and Burton House.

**35 Teams, 145 Wrestlers**

Thirty-five teams have entered 145 grapplers who will compete in nine collegiate weight classes. Three contests, each comprised of three one minute periods, will be going simultaneously. Gold and silver medals will be presented to the first two finishers in each class.

Since five of last year's eight champs were freshmen who went on to compete in intercollegiate wrestling, most of the titles will be up for grabs. The only two

returning first place finishers are Bob O'Donnell '66 in the 177 pound class and heavyweight Dave Penny '66, both from Beta Theta Pi. Dixon Cleveland '68, a 130 pounder from Phi Delta Theta and 137 pound Frank March '67 from Burton House are the favorites in their respective classes. Both placed second last year, but each gold medal winner has since then lost his eligibility.

**Matches begin at 5 p.m.**

To eliminate the previous 1:30 termination of Friday night's action, the tournament will begin at 5:00 rather than 7:00 p.m. Saturday afternoon features the championship semi-finals and finals and the last three rounds of consolation bouts.

The IM tournament will precede the only two other matches to be held at the Institute this year, the holiday tournament in December and the New England championships. In addition, it will display most of MIT's future varsity matmen, so all those interested are encouraged to stop by Dupont sometime over the weekend.

## Cross country team defeated by UNH; Brown comes in 1st

The varsity harriers lost their first dual meet of the season to New Hampshire last Saturday. Running with two of their top five runners out of the action due to injuries, the Techmen amassed forty points to their opponents' twenty-one.

The meet saw one of the most thrilling duels of the season as Sumner Brown, '66, stayed with New Hampshire's George Estabrook for the entire 4.5 mile course. In the final 150 yards Sumner turned on a fine sprint and won by a 15 yard margin. Brown's time for the course was 23 minutes, 9.1 seconds.

Captain Rob Wesson, '66, also made a fine showing, moving from ninth position at the two mile mark to sixth place at the finish. Also scoring for the Techmen were Dan Hoban, '68, Sam Guilbeau, '67, and Joe LaBrecche, '67.

For the season the harriers have now won three and lost two. The team hopes to be back at full strength next Wednesday when they run against Boston College at Franklin Park at 4:30. The following Saturday, the harriers meet Springfield at 2:30.

**Varsity Results—1. Brown (MIT), 23:09.1; 2. G. Estabrook (NH), 23:11; 3. R. Estabrook (NH), 23:58; 4. Morrill (NH), 24:01; 5. Bell (NH), 24:13; 6. Wesson (MIT), 24:29; 7. Dunn (NH), 24:35; 8. Springate (NH), 9; Wear (NH), 24:52; 10. Young (NH), 25:01; 11. Wellman (NH), 25:17; 12. Hoban (MIT), 25:18; 13. Teschek (NH), 25:47; 14. Dudley (NH), 26:20; 15. Guilbeau (MIT), 29:53; 16. LaBrecche (MIT), 33:11.**

## Chapman to talk at TCC meeting

Paul Chapman, Director of Packard Manse, will be speaking tomorrow night at a 7:15 pm meeting of the Tech Catholic Club in room 407 of the Student Center.

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## Frosh sports

### Harriers score 4th win

By Tom Thomas

The MIT frosh cross country squad displayed their potential again this past weekend by downing a fine New Hampshire squad 27-29. Sensational Stan Kozubek remained undefeated as he recorded a time of 12:02.4. Other Tech scorers included Jim Yankaskas, Tom Najarian, Rich Wolfson, and John Usher in that order.

In beating New Hampshire, the frosh squad upped their fine record to 4-1 for the season. Coach Farnham has high hopes for his boys, and they seem to be producing up to expectations. In their next outing the MIT runners will clash with Boston College.

**RESULTS** — 1, Kozubek (MIT), 12:02; 2, Dunklee (UNH), 12:22; 3, Patriticus (UNH), 12:28; 4, Varier (UNH), 12:33; 5, Yankaskas (MIT), 12:53; 6, Najarian (MIT), 13:06; 7, Wolfson (MIT), 13:15; 8, Usher (MIT), 13:20; 9, Cleveland (UNH), 13:30; 10, White (MIT), 13:15; 11, Miller (UNH), 13:55.

The frosh soccer team continued to be a disappointment as it lost to Tufts and Harvard last week. On Tuesday the team journeyed to the Tufts field looking for its first win; but the hosts

refused to cooperate, handing them a 4-0 setback. Hampered by injuries to two key players, the frosh kickers did not manage one goal, though one was netted and then called back on an off-sides violation.

On Saturday, the sixteenth, the frosh booters were soundly defeated by a fine Harvard eleven, 6-0. Perennially strong Harvard fielded a skillful center forward who scored four times. The story was once again pretty much the same.

The team definitely has potential but seems to lack the spirit associated with a winning squad. They will meet Brown at Briggs Field on Monday, October 18, and they will be out to produce that important first win.

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# AUTHOR'S DAY

## November 1, 1965

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## THE COOP

# Annual Meeting

The annual meeting of the membership of the Harvard Cooperative Society, in accordance with Article XIV of the By-Laws, will be held in . . .

**Harvard Hall 1**  
**Wednesday, Oct. 27, 1965**  
**5 p.m.**

Members who have joined since July 1, 1965 are Participating Members and are cordially invited to attend.

**THE TECH COOP**

## Losing streak broken

# Booters split two games

By Bob Sultan

The Tech soccermen edged out Tufts 2-1 on Thursday, October 14, to end a losing streak which has lasted since the opening of the season. Tufts took an early 1-0 lead but the Techmen tied it up in the second half. The score held at 1-1 and two five-minute overtime periods were played. Bayo Ajadi '68, scored the winning goal.

### Loss to Amherst

The victory was followed on Saturday, October 16, by a 3-1 loss to Amherst. The strong Amherst team led in the third quarter 3-0, as Tech's injury riddled

defense had a hard time holding off the Amherst offense. However, the Tech team suddenly came alive when Bayo Ajadi took the rebound on an unsuccessful direct kick and made a long, high shot into the goal giving the Tech team its lone point. During the half, the Techmen came close to scoring with one shot that bounced off the upper goal support and another that got through the Amherst goalie but missed the goal by inches.

There was obviously real improvement in the short passing and offensive coordination of the team.

Avrim Markowitz '67, Tech's goalie, made a number of tough saves and allowed only one shot made from beyond ten yards to get by him. This was quite a feat considering the increased pressure put on Avi to compen-

sate for holes in the Tech defense. Despite the Tech team's somewhat unimpressive season's record, Avi has a good chance of making All New England Goalie. Jim Chrostowski '66, and Gavin Clowe '68, also did fine jobs on defense while Ajadi and John Sole sparked the offense.

### Numerous injuries to MIT

The big problem that Coach Charles Batterman's team faces now is the terrific toll which injuries have taken. Jack Russel '68, pulled all his heel muscles, Rich Gostyla '67, is out with a leg injury, Ajadi was out of play last week with a back injury, and in Thursday's game, Sunney Alexis '68, suffered a broken hand. In the final minutes of play Saturday, Jim Chrostowski, probably the best of the remaining defensemen, slammed into another player and broke his leg. His fine playing and sportsmanship were applauded as he left the field, but he leaves behind an even more weakened defense.

### Problems for Offense

Due to all these injuries, much effort has been put into shoring up the defense. The team has been playing a diamond defense which is tight and flexible enough to do the job but leaves only four men on the offensive line. This means that effective passing and control of the ball has become much harder and many shots are taken on chance openings. Rest and recuperation seem to be at the top of the list on the soccer training schedule.

## Rugby team loses to Harvard, Holy Cross

The MIT Rugby Club lost one game to Harvard and two to Holy Cross over the past week. Against Harvard "B" on October 11, Tom Carroll '64 tied the game for MIT "B" late in the second half on a 5 point try and conversion, but a Harvard single try in the final minute game them an 8-5 victory.

Captain Tom van Tienhoven '66 was Tech's only bright spot in the "A" squad's 12-6 loss to Holy Cross, as he scored on a drop kick and a penalty. The "B" squad also lost to Holy Cross, 21-0.

## On Deck

### Wednesday, October 20

Cross Country (V) — Boston College, Home, 4:30 PM.  
Cross Country (F) — Boston College, Home, 4:00 PM.

### Thursday, October 21

Soccer (JV) — Stonehill College, Home, 4:00 PM.

### Saturday, October 23

Soccer (V) — Springfield, Away, 11:00 AM.  
Soccer (JV) — Dean Junior College, Away, 10:00 PM.  
Cross Country (V) — Springfield, Away, 2:30 PM.  
Cross Country (F) — Springfield, Away, 2:00 PM.  
Sailing (V) — McMillan Regatta at Navy through Sunday.

### Sunday, October 24

Sailing (F) — Decagonal at URI

### Tuesday, October 26

Soccer (F) — Newton High School, Home, 3:30 PM.  
Cross Country (V) — Northeastern, Tufts, Home, 4:30 PM.  
Cross Country (F) — Northeastern, Tufts, Home, 4:00 PM.

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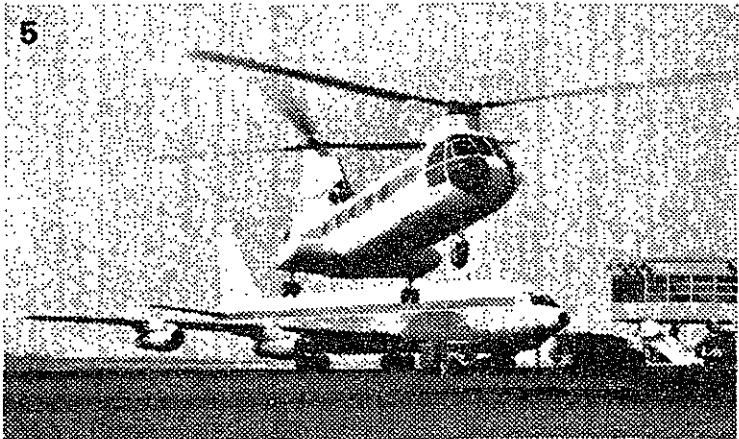
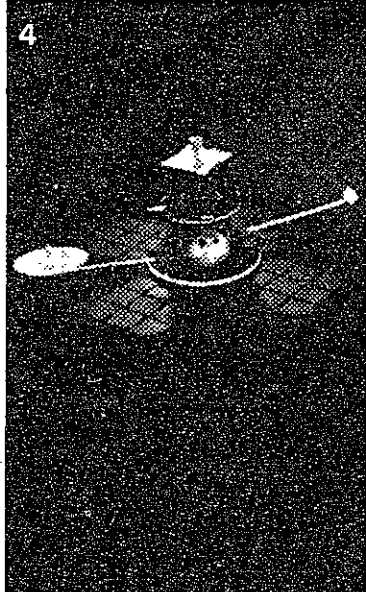
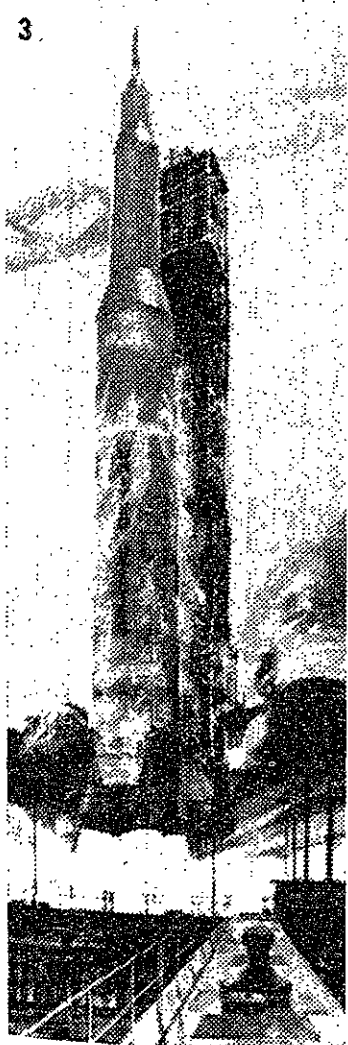
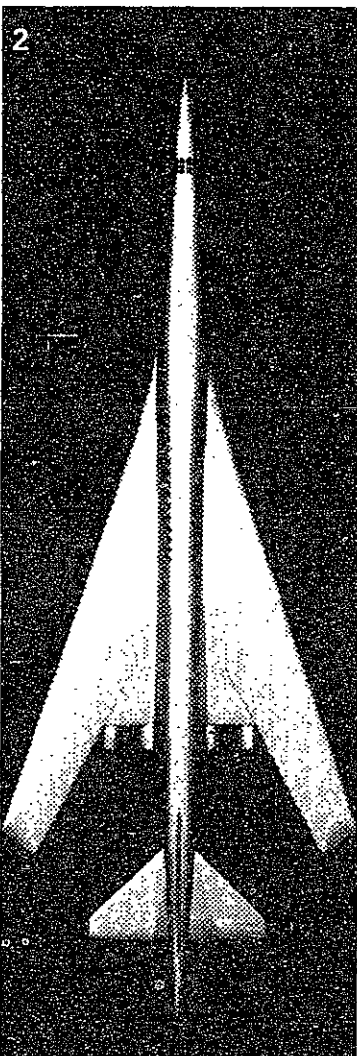
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(1) Boeing's new short-range 737 jetliner. (2) Variable-sweep wing design for the nation's first supersonic commercial jet transport. (3) NASA's Saturn V launch vehicle will power orbital and deep-space flights. (4) Model of Lunar Orbiter Boeing is building for NASA. (5) Boeing-Vertol 107 transport helicopter shown with Boeing 707 jetliner.

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Heavies also compete

# Lights take first, second

By Chuck Hottinger

Two MIT lightweight eights took first and second in their division of the Head of the Charles Regatta last Saturday, Oct. 16. Other Tech boats competing in the Regatta, sponsored by the Cambridge Boat Club, included two lightweight fours, two heavyweight fours, and a single scull piloted by John Yasitis '68.

All events were held over a twisting three mile course beginning at the MIT boathouse and finishing one half mile above the Cambridge Boat House. Competing boats were sent off from the starting line at intervals, with the best time over the course determining the winners of the 12 events. With ninety-odd entries in the different divisions of sculls, fours, eights, and women's crews, the Regatta was one of the largest rowing events to be held on the Charles in recent years.

Winners of the senior lightweight eight even was an MIT boat stroked by Bert Blewett '66, with Paul Salipante, '66 at coxswain; runner-up in the event was another Tech boat, stroked by Mike Kreuger '67 with John Glendenning '67 at coxswain.

## Lightweight fours place

Two MIT lightweight fours took third and fourth in a field of five in the Lightweight four division. Placing third behind Penn. Athletic Club was a Tech four stroked by Dick Coulter '67 with Brad Billetdeaux '68 as cox. Finishing ahead of Argonaut Rowing Club for the number four spot was another Tech four with Frank Sylvester '68 at stroke and Myril Bailey '68 in the coxswain seat. Winners of the event were a combination Cambridge - Riverside

Boat Clubs four with former Tech oarsman and coach Rick Metzinger '63 at the number two seat, and MIT coxswain Ray Petit '67.

## Penn Heavies win

A Penn Athletic Club heavyweight four took first place in a field of five, including two Tech fours and a Harvard four. An expected contender, Vesper B.C. of Philadelphia, winners of the '64 Olympic competition in Tokyo, did not compete. Taking second place was the Harvard entry, with three members of Harvard's Olympic four and Henley eight of last year, and former MIT oarsman Bill Weber '64, now lightweight varsity coach at Harvard. Finishing third was a Tech four with Sandy Blanchard '65 as stroke. Finishing last behind fourth place Argonaut B.C. was another MIT four, with Denny Ducsik '68 at stroke, and Dennis Overbye '66 at cox.

Finishing last in a field of seven in the college singles division was Tech sculler John Yasaitis '68.

Lightweight fours: 1. Cambridge B.C.—Riverside B.C., 20:38; 2. Penn. A.C., 20:42; 3. MIT (Billetdeaux), 20:54; 4. MIT (Bailey) 21:02; 5. Argonaut B.C., 21:32.  
MIT (Billetdeaux) Bow—T. Strand, 2—L. Taggart, 3—R. Vespri, Stroke—R. Coulter, Cox—B. Billetdeaux.  
MIT (Bailey) Bow—W. Tippet, 2—R. Haslan, 3—L. Rosenberger, Stroke—A. Sylvester, Cox—K. Bailey.  
Senior Fours: 1. Penn. A.C. 19:14; 2. Harvard 19:24; 3. MIT (Boring) 20:01; 4. Argonaut B.C. 20:23; 5. MIT (Overbye) 20:25.  
MIT (Boring) Bow—B. Anderson, 2—J. Lamy, 3—R. Schilling, 4—A. Blanchard, Cox—B. Boring.  
MIT (Overbye) Bow—K. Stolzmann, 2—F. Eberle, 3—T. Rice, 4—D. Ducsik, Cox—D. Overbye.  
Lightweight Eights: 1. MIT (Salipante) 16:58; 2. MIT (Glendenning) 17:22; 3. U. of Penn. 17:40; 4. U. of Penn. 17:59.  
MIT (Salipante) B. Ljungquist, W. Arnaud, W. Zimmerman, P. Forbes, E. Riordan, H. Wagner, R. Kohler, B. Blewett, Cox—P. F. Salipante.  
MIT (Glendenning) L. Johnson, J. Ziegler, R. Buxton, E. Furtak, A. White, M. Teter, B. Cox, M. Kreuger, Cox—J. Glendenning.

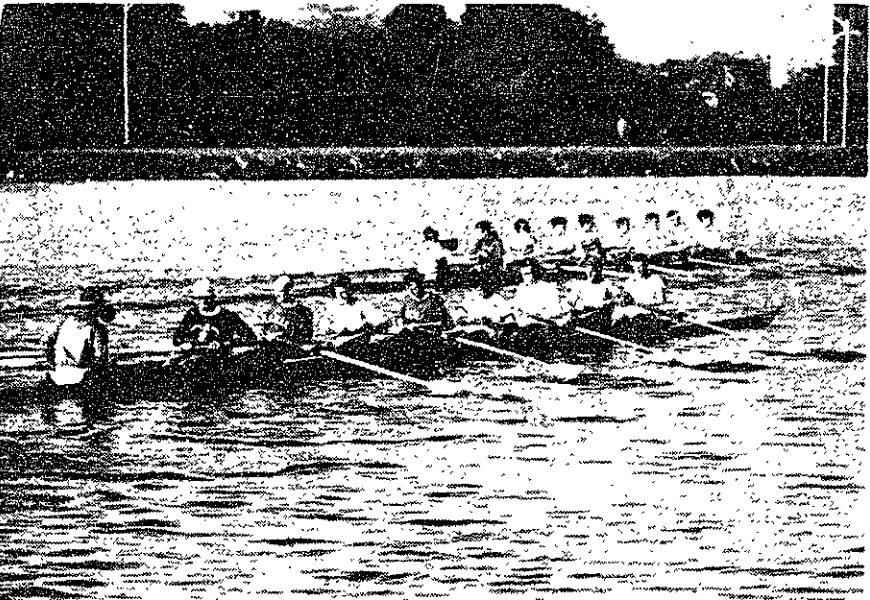


Photo by Saul Moollem

Tech's first lightweight eight crew moves down the Charles during the Head of the Charles Regatta last Saturday stroked by Mike Kruger '67. This boat took first place in the senior lightweight division.

## Win Finn Regatta

# Sailors qualify for NEISA Finals

The MIT varsity sailing team continued its winning ways this past week by scoring first places in both the Finn Class Invitational Regatta and the New England Intercollegiate Sailing Association Sloop Championship Preliminaries.

In the Finn Regatta at Harvard on October 11, Tech skippers George Foote '68 and Joe Ferreira '67 conquered strong winds and occasional rains to give MIT a 66 to 61 margin over runner-up

Harvard. Foote maneuvered his Olympic singlehanded catboat well enough to gain individual honors with 35 points. Two disqualifications because of rule infractions proved costly to the Harvard team. Other scores were: BU 55, Brown 46, Stonehill 43, and Merrimack 28.

The NEISA Preliminaries saw MIT win all nine of its races October 16 and 17 on its way to qualifying for the finals to be held at Tech November 13 and 14.

## How They Did

### Cross Country

UNH 21, MIT (V) 40  
MIT (F) 27, UNH 29

### Soccer

MIT (V) 2, Tufts 1  
Amherst 3, MIT (V) 1  
MIT (JV) 2, Steven Bus. College 0  
Tufts 4, MIT (F) 0

### Tennis

MIT (V) 8, Brandeis 1  
MIT placed first in the Brandeis Invitational Tournament

### Sailing

MIT (V) placed first in the Finn Class Regatta at Harvard  
MIT (V) placed first in the NEISA Team Championship Preliminaries

### Lightweight Crew

MIT (1st boat) placed 1st in senior lightweight 8 division of Head of the Charles Regatta. MIT (2nd boat) finished 2nd

### Rugby

Harvard 8, MIT (B) 5  
Holy Cross (A) 12, MIT (A) 6  
Holy Cross (B) 21, MIT (B) 0

# SAE to face Betas in final

By Herb Finger

It was pass, pass, pass this weekend as the footballs took to the air in the post-season intramural playoffs. Though the wind was strong, it did not deter Fred Souk '66 and Steve Schroeder '67 from leading their teams to victory.

Sigma Alpha Epsilon scored first and last in their victory over Phi Delta Theta last Saturday. Their first touchdown came about halfway into the first quarter when, after a bad Phi Delt hike on fourth down, Fred Souk passed to Don Rutherford '67 from the four making the score 6-0. On the first play in the second quarter Tom Bush '66, Phi Delt quarterback, quick kicked to mid-field. On fourth-and-nine, Souk passed to Rutherford for SAE's second score.

Rutherford continued to keep a hold on the scoring as he made it 18-0 on a ten-yard pass from Souk about 3 minutes later. John Flick '66 broke the Rutherford monopoly by adding the extra point.

## Phi Delt come back

Phi Delt was down but not out, as, with less than a minute to go, Tom Bush passed to Denny Silvers '66 and closed the half SAE 19, Phi Delta Theta 6.

Phi Delt continued scoring in the third quarter as they took the kickoff and went in for the TD a minute later, Bush to Silvers. Later, after Silvers picked off a Souk pass, Ernie Ascherman '67 tied the score 19-19. The game was deadlocked through the rest of the third quarter, but in the fourth quarter the SAE'ers put the game on ice by driving from their own twenty in 17 plays, climaxed by another Souk-Rutherford pass. Greg Jerrell's '66 extra point brought the score to 26-19.

With less than a minute to go Jack Mazola '66 intercepted a Bush pass and with six seconds Souk swept left end for the final score. Ted Nygreen's extra point closed out the game 33-19.

## Betas roll on

Beta Theta Pi continued to equalize last year's performance by defeating Delta Tau Delta 33-12. After a close played first quarter, the Betas scored on their first play from scrimmage in the second period on a pass from Steve Schroeder '67 to Greg Wheeler '67. A pass to Tom Chen '68 added the extra point.

The rest of the quarter was a punting duel until Schroeder hit Tom Gerrity '63 for a touchdown. Wheeler's extra point ended the half 14-0.

## Beta defense stings

In the second half the Betas took the kickoff to mid-field and nine plays later made the score



Delt quarterback, Art von Walburg '67, is cornered by Rick Young '68, Dick Nygren '67, Terry VanderWerff '66 and Greg Wheeler '67 (45) as he attempts to skirt right end the ground is Delt blocker Bill Kosinar '66. Beta won 33-12.

20-0 with a pass to Kent Groninger '63. Four plays later the Delt entered the scoring column on a pass from Art Von Walburg '67 to Tom Larson '67. Three minutes later Jim Cormier '68 made it 27-6 with Schroeder's extra point.

In the final quarter Tom Gerrity scored again closing out the Beta scoring with 33 points. Garland Taylor '67 ended the Delt's scoring on a pass from Von Walburg two minutes later.

## ZBT in sudden death

In the "B" League playoffs Zeta Beta Tau outlasted NRSA "A" as they won 2-0 in sudden death overtime. Bruce Fauman '65 ended the game by blocking a NRSA punt in the end zone. Baker "A" found it easy picking as they trounced Pi Lambda Phi. After a 7-0 first half, Baker capitalized on an unsportsmanlike conduct penalty on fourth down to go in for the second score from inside the twenty. Their third score came on a Baker punt return. The final score made it Baker "A" 27, Pi Lam O.

In the "C" League it was Kappa Sigma 24-0 over Phi Mu Delta; while Phi Sigma Kappa edged Lambda Chi Alpha "B" 14-6. In Graduate action, Grad Economics shut out Ashdown House 13-0.

## Final Standings

### A Division

#### League 1

Beta	3	0
DU	2	1
Bur "A"	1	2
Ashdown	0	3

#### League 2

SAE	3	0
Theta Chi	2	1
Sigma Chi	1	2
Sig Ep	0	3

## Weissgerber, Chandler team for Brandeis title

By Larry White

Carl Weissgerber '68 and Dave Chandler '66 reached the finals and semifinals respectively of the Brandeis Invitational Tennis Tournament last weekend to give MIT the team title for the event. Two members from each of sixteen college teams in the area, including BC, Tufts, and Providence, competed in the two day tournament.

Both Weissgerber and Chandler survived the first three rounds of matches on Saturday, October 16, to move into the final two rounds. Chandler defeated Bill Meakem, BC, 6-4, 7-9, 6-3; Ed Matulewicz, Westfield, 6-0, 6-0; and Manuel Sumares, Stonehill, 6-1, 6-1. Weissgerber beat John Chanowski, BC, 6-0, 6-0; Dag Williamson, Colby, 3-6, 6-3, 6-4; and John Maloy, Stonehill, 5-7, 6-1, 6-0.

On Sunday, Weissgerber defeated Barry Simard of Westfield 6-2, 6-2 in one semifinal match while Paul Lawrence of Tufts beat Chandler 6-2, 6-0 in the other. In the finals, best three-out-of-five sets, Lawrence edged Weissgerber 5-7, 6-3, 6-3, 6-1 to take the individual championship, but Tech's balance gave it the team trophy.

In an exhibition match last Thursday, MIT beat Brandeis 8-1

## League 3

Delts	3
Grad Man	2
LXA "A"	1
AEPI	0

## League 4

Phi Delt	3
Fiji	2
SAM	1
PKT	0

## B Division

### League 1

PLP	3
Sen Hou "A"	2
DKE	1
TEP	0

### League 2

ZBT	3
Phi Kap Sig	2
Bex	1
Bak "B"	0

### League 3

Bak "A"	3
ATO	2
EC "A"	1
Fiji "B"	0

### League 4

NRSA "A"	3
Theta Delta Chi	2
Sigma Nu	1
Bur "B"	0

## C Division

### League 1

LXA "B"	3
Stud Hou	2
Bak "C"	1
Sen Hou "B"	0

### League 2

Kappa Sig	3
Bur "C"	2
PBE	1
EC "B"	0

### League 3

PMD	3
Theta XI	2
NRSA "B"	1
Chi Phi	0

### League 4

Phi Sig	2
Ash Dining	1
Stud Cent Din	0

## Grad Division

Grad Econ	3
Westgate	2
Ashdown Hou	1
Grad X	0

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